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MONTHLY RECOMMENDATIONS OF
RECENTLY PUBLISHED
SCIENTIFIC AND TECHNICAL BOOKS

(1950-51)

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PREFACE

THE main object of this monthly list is to provide libraries with a list of selected recent scientific and technical books. The selection has been made by those with special knowledge of the subjects. It is not claimed that the list is exhaustive and it is hoped that the range of subjects will gradually be extended.

The aim of the Publications Committee has been to secure the help of individuals and specialist organizations who are, for their own purposes, making as complete a survey as possible of the literature in their own fields and who are able to assess the relative merits of new publications. This object has already been largely achieved : over seventy specialist organizations are generously helping Aslib in this way.

The notes in inverted commas are quoted from reviews or from the recommending experts; those in square brackets are amplifications of the title compiled in the Aslib office from information supplied by the publishers.

Only books in the English language and, with few exceptions, those published within the previous six months, have been included. The limitation with regard to date, however, has been stretched sometimes in the case of books published abroad or those on very specialized subjects.

The place of publication is London unless otherwise stated.

The regular transactions of societies are not included.

The works recommended are set out for convenience under broad main headings following the order of the Universal Decimal Classification and are further classified by the following symbols :

(*A*) Books suitable for general readers, or books treating the subject in an introductory, elementary or general manner.

(*B*) Books of an intermediate degree of technicality or suitable as textbooks for students.

(*C*) Books of an advanced or specially technical character.

(*D*) Directories, dictionaries, handbooks, lists and catalogues, encyclopædias, year-books, and similar publications.

A title-page, classified table of contents, and index are issued with the last number of each volume.

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H. Whistler. Popular handbook of Indian birds. 4th ed. rev. and enl., by N. B. Kinnear. *Gurney & Jackson, 98 Great Russell St., W.C.1. 1949. pp.xxviii.560, 108 figs., 24 pls. (7 col.). 22s. 6d.* *(A) 24*

[See also *48*]

HYGIENE

[See *73*]

ENGINEERING

General

C. J. Atkins. Practical engineering drawing. Vol. 2: A textbook for students for the second year National Certificate in engineering. *English Universities Press, Ltd. 1949. pp.186. 10s.* *(B) 25*

J. B. Pinkerton. The heat pump; its practical application. *Princes Press, Ltd., 147 Victoria St., S.W.1. 1949. pp.257. 25s.* *(C) 26*

W. E. Walters. Three-dimensional engineering drawing; with an introduction by A. C. Parkinson. *Oxford: Pen-in-Hand Publishing Co. Ltd., 11 St. Michael's St. 1949. pp.vii.124, illus. 10s. 6d.* *(B) 27*

Aeronautical

J. Lawrence. The observers' book on aircraft; describing one hundred and nine types. New ed. *Frederick Warne & Co. Ltd. 1949. pp.248, 370 illus. 4s. 6d.* 'Will be valuable for the rapid recognition of modern aircraft.' *(D) 28*

[See also *35*]

Civil

B. G. Manton. Highway surveying and setting out. *E. Arnold. 1948. pp.288. 28s.* *(C) 29*

Electrical

E. Molloy, *general ed.,* **and M. G. Say,** *consulting ed.* The electrical engineer's reference book; a comprehensive book of reference, providing a summary of latest practice in all branches of electrical engineering. 4th ed. *Newnes. 1949. pp.2168, 2000 diagrs., 250 photographs. 50s.* 'A comprehensive reference work with contributions from sixty-two specialists.' *(D) 30*

F. G. Spreadbury. Permanent magnets. *Pitman. 1949. pp.viii.280, illus. 35s.* 'Deals fully with the practical concepts of magnetism, particularly ferromagnetism, with magnetic measurements and instruments, and with the magnetic materials in current use and contains notes on magnetization and demagnetization.' *(B) 31*

C. E. Tibbs. Frequency modulation engineering; with a foreword by L. H. Bedford. *C. & H. 1949. pp.x.310, 172 figs. 28s. (9d. postage; 10d. abroad).* *(B) 32*

G. Windred. Elements of electronics. *C. & H. 1949. pp.197, 100 figs., 6 pls. 15s. (9d. postage; 10d. abroad).* *(B) 33*

[See also *17*]

Electrical Communications

E. B. Moullin. Radio aerials. *O.U.P. 1949. pp.xi.514, figs., 4 pls., tables. (International monographs on radio.) 50s.* *(C) 34*

Internal Combustion

F. W. Godsey and L. A. Young. Gas turbines for aircraft. *McG.-H. 1949. pp.355. 27s.* *(C) 35*

D. G. Shepherd. An introduction to the gas turbine. *Constable. 1949. pp.387. 24s.* *(C) 36*

W. R. Thomson. The fundamentals of gas turbine technology. *Power Jets (Research and Development), Ltd., 25 Green St., W.1. 1949. pp.148. 25s.* 'Contains chapters on cycles, flow through nozzles and through blading, and on generalized flow in axial-flow compressors and turbines.' *(C) 37*

Mechanical

'Duplex.' In the workshop. *Percival Marshall. 1949. Vol. 1: pp.186, illus. 8s. 6d.* 'This is the first of a series of volumes and comprises a selection of articles from *The Model Engineer* dealing with the lathe and its accessories.' *(B) 38*

W. H. Fowler, *comp.* Fowler's mechanics' and machinists' pocket book, 1949; a synopsis of practical rules for fitters, turners, millwrights, erectors, pattern makers, foundrymen, draughtsmen, apprentices, students, etc. 41st ed. *Manchester: Scientific Publishing Co. 1949. pp.485. 3s. 6d.* *(D) 39*

Modern Refrigeration. 1949 handbook of British refrigeration material and home and overseas buyers' guide. *Modern Refrigeration, Empire House, St. Martin's-le-Grand, E.C.1. 1949. pp.269. 10s.* 'There is a short section of technical data on the properties of refrigerants, etc.' *(D) 40*

Mining

W. W. Staley. Mine plant design. 2nd ed. *McG.-H. 1949. pp.xi.540, illus. $7.* *(C) 41*

Railway

E. A. Phillipson. The steam locomotive in traffic. *Locomotive Publishing Co. Ltd., 88 Horseferry Rd., Westminster, S.W.1. 1949. pp.252. 17s. 6d.* 'A practical manual of running shed work which covers shed equipment, boiler water supply, periodical examinations, engine cleaning, failures and breakdown work, storekeeping, and management.' *(C) 42*

R. E. Tustin. Garden railways. *Percival Marshall. 1949. pp.110, illus. 10s. 6d.* 'A book which will appeal to all model enthusiasts.' *(A) 43*

AGRICULTURE

General

G. H. Bates. Weed control. *Spon. 1949. pp.viii.236, 20 pls., 4 tables. (Agricultural series.) 14s.* *(B) 44*

E. V. Hardenburg. Potato production. *Ithaca, N.Y.: Comstock Publishing Co. 1949. pp.xi.270, illus. $3.* *(B) 45*

H. I. Moore. Root crops. *Spon. 1949. pp.viii.115, 14 figs., 34 tables. (Agricultural series.) 14s.* *(B) 46*

[See also *20, 58*]

FORESTRY

P. P. Pirone. Maintenance of shade and ornamental trees. 2nd ed. *O.U.P. 1949. pp.436. $6.50 or 32s.* *(B) 47*

J. Walton, *ed.* Glen More. *H.M.S.O. 1949. pp.v.71, illus., maps.* (*National forest park guides.*) *2s.* 'Includes history, geology, vegetation, wild life, Gaelic place names, etc.' *(A) 48*

[See also *71*]

HORTICULTURE

John Innes Horticultural Institution. The fruit, the seed and the soil; collected John Innes leaflets. 2nd ed. by C. D. Darlington. *The Institution. 1949. pp.90. 3s. 6d.* *(B) 49*

Plant Protection, Ltd. Fruit-growing for amateurs. *The Company, 61 Curzon St., W.1. 1949. pp.128, illus. 8s. 6d.* *(B) 50*

[See also *47*]

SOIL SCIENCE

Commonwealth Bureau of Soil Science. The practice of soil conservation in the British Empire, by Sir Harold A. Tempany. *Penglais, Aberystwyth: Commonwealth Agricultural Bureaux, Central Sales Branch. 1949. pp.vii.106. 10s.* *(B) 51*

[See also *72*]

PRINTING

K. Ullyett. Pictorial printing processes; an introduction to the modern technique of producing printed pictures. *Pitman. 1949. pp.viii.152, illus. 15s.* 'Designed for the print buyer, student and practitioner in editorial and advertising work.' *(A) 52*

INDUSTRIAL ORGANIZATION

P. W. S. Andrews. Manufacturing business; with a preface by Sir Henry Clay. *Macmillan. 1949. pp.xviii.308. $3.75 or 15s.* 'A study of private enterprise and the theory behind the operation of a business.' *(B) 53*

T. K. Dick. Industrial catering and canteen management. *Maclaren & Sons, Ltd., Stafford House, Norfolk St., W.C.2. 1949. pp.136, illus. 8s. 6d.* *(A) 54*

T. G. Rose. Business charts; a clear explanation of the various types of charts used in business, and on the principles governing the correct presentation of facts by graphical methods. 4th ed. *Pitman. 1949. pp.126. 18s.* 'In this edition a short chapter on band charts has been added.' *(C) 55*

[See also *5*, *6*]

FUEL TECHNOLOGY

D. H. Bangham, *ed.* Progress in coal science. *Butterworth. 1959. pp.480, 35 illus. 40s.* *(C) 56*

Council of British Manufacturers of Petroleum Equipment. British petroleum equipment, 1949. *The Council. 1949. pp.524. 30s.* 'A directory, with catalogue pages, of the products of the firms which are members of this body.' *(D) 57*

United States. Department of Agriculture. The technical literature of agricultural motor fuels; including physical and chemical properties, engine performance, economics, patents, and books, by R. Wiebe and J. Nowakowska. *Washington: Superintendent of Documents. Government Printing Office. 1949. pp.vi.259.* (*Bibliographical bulletin No. 10.*) *45c.* (*D*) *58*

FOOD TECHNOLOGY

A. J. Howard. Canning technology; with a foreword by Sir Jack Drummond. *Churchill. 1949. pp.287, illus. 30s.* 'Deals with the canning of all types of food and will serve as standard textbook both for canners and food scientists.' (*B*) *59*

METALLURGY

Aluminium Development Association. Aluminium in service. *The Association. 1949. pp.83, illus. 3s. 6d.* (*B*) *60*

Metals and alloys. 5th ed. rev. *Louis Cassier Co., Ltd., Dorset House, Stamford St., S.E.1. 1949. pp.214. 15s.* (*D*) *61*

MANUFACTURES

Paper

Paper Makers' Association. Technical Section. Paper making; a general account of its history, processes, and applications. *Kenley, Surrey: The Association. 1949. pp.x.208, illus. 6s.* 'Primarily for the younger members of the industry, those thinking of entering the industry, and those in associated industries. Each section has been written by an expert in the particular branch. A glossary of paper-making terms is included.' (*B*) *62*

Scientific Instruments

R. Lang, *ed.* Laboratory and workshop notes; a selection reprinted from the *Journal of Scientific Instruments. New York: L.G.; London: E. Arnold. 1949. pp.xii.272. $5.25 or 21s.* (*C*) *63*

Textiles

A. V. Pringle. The theory of flax spinning. *Belfast: H. R. Carter Publications, Ltd., 2 Marcus Ward St. 1949. pp.88, 90 illus. 15s.* 'Will also be of value as a reference book to experienced spinners.' (*B*) *64*

Timber

[See *71*]

BUILDING

Sir W. Ivor Jennings. The law of housing. 3rd ed. by H. Marnham; with chapters by F. E. Price. *Chas. Knight & Co., Ltd., 11–12 Bury St., St. Mary Axe, E.C.3. 1949. pp.lix.847. 63s.* (*C*) *65*

D. J. W. Cullum. The practical application of acoustic principles. *Spon. 1949. pp.200, illus.* (*Architectural and building series.*) *16s.* (*C*) *66*

Illuminating Engineering Society. I.E.S. code for the lighting of building interiors. *The Society. 1949. pp.28, diags. 2s. 6d.* 'On natural and artificial lighting.' (*C*) *67*

E. G. Warland. The technique of building. *Published for English Universities Press. Hodder & Stoughton. 1949. pp.xvi.367, illus. 21s.* (*B*) *68*

W. J. Woolgar, *ed.* Newnes' Plumbers' pocket book. *Newnes. 1949. pp.192, diagrs. 5s.* (*B*) *69*

TOWN AND COUNTRY PLANNING

W. C. Graper. Development procedure under the Town and Country Planning Act, 1947; a practical guide. *C. Lockwood. 1949. pp.viii.141. 8s. 6d.* (*B*) *70*

Great Britain. Ministry of Town and Country Planning. Memorandum on the preservation of trees and woodlands. *H.M.S.O. 1949. pp.27. 6d.* 'Includes a model form of the Tree Preservation Order.' (*C*) *71*

H. Kendall and K. H. Baruth. Village development in Palestine during the British mandate; containing information on soil conditions by S. H. Shaw [and others]. *Crown Agents for the Colonies. 1949. pp.89, 2 maps, pls. 10s. 6d.* (*B*) *72*

ARCHITECTURE

Association for Planning and Regional Reconstruction *and* **Industrial Welfare Society.** Works lavatories; a guide to the design of cloakrooms, washrooms and lavatories. *The Society. 1949. pp.vi.80, illus. 12s. 6d.* (*B*) *73*

J. Betjeman and J. Piper. Murray's Berkshire architectural guide. *J. Murray. 1949. pp.xii.163, illus., map, pls. 18s.* (*B*) *74*

J. H. Harvey. Dublin; a study in environment. *Batsford. 1949. pp.116, illus. (The British cities series.) 15s.* (*B*) *75*

H. Lemaitre. French chateaux. *Batsford. 1949. pp.39, 224 pls. 50s.* (*B*) *76*

J. More. The land of Italy. *Batsford. 1949. pp.vii.264, illus. (Books on the countries of Europe series.) 18s.* (*B*) *77*

FILM AND PHOTOGRAPHY

J. A. Cash. Photography with a Leica. *Fountain Press. 1949. pp.120, col. frontispiece, 65 photographs. 12s. 6d.* 'The author confides in the reader how the fullest use can be made of the versatility of the Leica and how the excellent results shown in the photographs in this book were obtained.' (*A*) *78*

Informational film and television year book, 1949-50. 3rd ed. *Edinburgh: Albyn Press, 42 Frederick St. 1949. pp.200, illus. (A film focus book.) 12s. 6d.* (*D*) *79*

GEOGRAPHY

N. Polunin. Arctic unfolding; experiences and observations during a Canadian airborne expedition in Northern Ungava, the Northwest Territories, and the Arctic Archipelago. *Hutchinson. 1949. pp.348, 3 maps, 33 pls. 21s.* (*A*) *80*

Addendum: Vol. 14, No. 11, Item 883. Also available from Publications Bureau, India House, Aldwych, W.C.2. Vol. 1, Part 1. 24s. Vol. 2, Part 1. 12s.

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L.G. : Longmans, Green
McG.-H. : McGraw-Hill
O. & B. : Oliver and Boyd
O.U.P. : Oxford University Press

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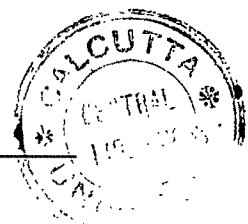

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FEBRUARY 1950
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PREFACE

THE main object of this monthly list is to provide libraries with a list of selected recent scientific and technical books. The selection has been made by those with special knowledge of the subjects. It is not claimed that the list is exhaustive and it is hoped that the range of subjects will gradually be extended.

The aim of the Publications Committee has been to secure the help of individuals and specialist organizations who are, for their own purposes, making as complete a survey as possible of the literature in their own fields and who are able to assess the relative merits of new publications. This object has already been largely achieved : over seventy specialist organizations are generously helping Aslib in this way.

The notes in inverted commas are quoted from reviews or from the recommending experts; those in square brackets are amplifications of the title compiled in the Aslib office from information supplied by the publishers.

Only books in the English language and, with few exceptions, those published within the previous six months, have been included. The limitation with regard to date, however, has been stretched sometimes in the case of books published abroad or those on very specialized subjects.

The place of publication is London unless otherwise stated.

The regular transactions of societies are not included.

The works recommended are set out for convenience under broad main headings following the order of the Universal Decimal Classification and are further classified by the following symbols :

(*A*) Books suitable for general readers, or books treating the subject in an introductory, elementary or general manner.

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SCIENTIFIC RESEARCH

P. Freedman. Principles of scientific research. *Macdonald. 1949. pp.vi.218, illus. 15s.* 'The author discusses the characteristics required in a good research worker, what he may expect to do, and what he must not do.' *(A) 81*

ECONOMICS

W. Smith. An economic geography of Great Britain. *Methuen. 1949. pp.xv.747, illus. 32s. 6d.* *(B) 82*

EDUCATION

N. Hans and J. A. Lauwerys, *joint eds.* Yearbook of education, 1949. *Evans. 1949. pp.xv.660. 63s.* 'A survey by representatives of forty nations of new aims and ideals in general education.' *(D) 83*

MATHEMATICS

H. S. M. Coxeter. The real projective plane. *McG.-H. 1949. pp.xvi.396. 18s.* *(B) 84*

R. S. Underwood and F. W. Sparks. Living mathematics. 2nd ed. *McG.-H. 1949. pp.x.374. 24s.* 'Mimeographed edition was issued in 1938 under title: "Mathematics made different".'

(B) 85

ASTRONOMY

F. Hoyle. Some recent researches in solar physics. *C.U.P. 1949. pp.x.134, figs. (Cambridge monographs on physics.) 12s. 6d.* *(C) 86*

G. P. Kuiper, *ed.* Atmospheres of the earth and planets; papers presented at the fiftieth anniversary symposium of the Yerkes observatory, September 1947. *Chicago: Chicago University Press. 1949. pp.vii.366, illus., pls. (Chicago Univ. Com. on publications in the physical sciences. Publications.) $7.50.* *(C) 87*

PHYSICS

J. H. Awbery. A text-book on heat. *L.G. 1949. pp.312. 15s.* 'A concise text-book of degree standard which includes chapters on calorimetry, thermodynamics, properties of gases and liquids, heat transference, and statistical mechanics.' *(C) 88*

B. Carlin. Ultrasonics. *McG.-H. 1949. pp.xi.270. 30s.* 'Theories are stated and practical applications discussed, with information on testing materials, agitation, magnetostriction, etc.' *(C) 89*

J. A. Crowther, *ed.* Handbook of industrial radiology, by members of the Industrial Radiology Group of the Institute of Physics. 2nd ed. *E. Arnold. 1949. pp.viii.220, illus. 21s.* *(C) 90*

C. R. Freberg and E. N. Kemler. Elements of mechanical vibration. 2nd ed. *New York: Wiley; London: C. & H. 1949. pp.xiii.227, illus. $3.75 or 30s.* *(C) 91*

M. Ruhemann. The separation of gases. 2nd ed. *O.U.P. 1949. pp.322, illus. (International series of monographs on physics.) 30s.* *(B) 92*

[See also *86*]

CHEMISTRY

Alar. Modern methods of the analysis of aluminium alloys, by a committee of chemists convened by ALAR (Association of Light Alloy Refiners). *C. & H. 1949. pp.vii.144, figs. 13s. 6d.* *(C) 93*

J. Barksdale. Titanium; its occurrence, chemistry and technology. *New York: Ronald Press. 1949. pp.xii.591, illus. $10.00.* *(C) 94*

H. Diehl. Electrochemical analysis with graded cathode potential control. *Columbus, Ohio: G. F. Smith Chemical Co., 867 McKinley Ave. 1948. pp.vii.56. $1.00.* *(C) 95*

[See also *107, 127*]

GEOLOGY

P. G. H. Boswell. The Middle Silurian rocks of North Wales. *New York: L.G.; London: E. Arnold. 1949. pp.xvi.448, p's., figs. $20 or 80s.* *(C) 96*

K. P. Oakley and H. M. Muir-Wood. The succession of life through geological time. 2nd ed. *British Museum (Natural History). 1949. pp.vii.92, 13 pls., 4 maps, text-figs. 2s. 6d.* *(B) 97*

G. F. H. Smith. Gemstones. 10th ed. *Methuen. 1949. pp.xix.537. 35s.* *(B) 98*

METEOROLOGY

O. G. Sutton. Atmospheric turbulence. *Methuen. 1949. pp.viii.107. (Monographs of physical subjects.) 6s.* *(B) 99*

M. V. Wilkes. Oscillations of the earth's atmosphere. *C.U.P. 1949. pp.x.76. (Cambridge monographs on physics.) 12s. 6d.* *(B) 100*

BIOLOGY

L. G. Barth. Embryology. *New York: Dryden Press. 1949. pp.xii.330, illus. (Dryden Press publications in the biological sciences.) $5.00.* *(B) 101*

C. D. Darlington and K. Mather. The elements of genetics. *New York: Macmillan; London: A. & U. 1949. pp.vii.446, figs., tables. $3.75 or 25s.* *(B) 102*

K. Mather. Biometrical genetics; the study of continuous variation. *New York: Dover Publications; London: Methuen. 1949. pp.ix.158. $3.50 or 18s.* *(C) 103*

J. H. Prince. Visual development; foreword by H. Hartridge. Vol. 1. *Edinburgh: E. & S. Livingston. 1949. pp.430, diagr., illus., photogr. 50s.* *(B) 104*

[See also *111, 112, 113*]

BIOCHEMISTRY

E. Baldwin. Dynamic aspects of biochemistry. *C.U.P. 1949. pp.457, diagrs. 21s.* 'This is the first advanced text-book to summarize the latest work on enzymes and intermediary metabolism from the modern view-point.' *(B) 105*

E. Baldwin. An introduction to comparative biochemistry. 3rd ed. rev. and enl. *C.U.P. 1949. pp.164, illus. 7s. 6d.* 'This book shares with that of M. Florkin the distinction of being the only two texts on the subject in existence.' *(B) 106*

O. Warburg. Heavy metal prosthetic groups and enzyme action. Translated from German by A. Lawson. *O.U.P. 1949. pp.xii.230. 18s.* 'Nine-tenths of the text deals with iron-containing proteins.' *(C) 107*

BOTANY

W J. Dowson. Manual of bacterial plant diseases. *A. & C. Black. 1949. pp.x.183, illus. 16s.* *(C) 108*

H. L. Edlin. British woodland trees. 3rd ed. rev. *Batsford. 1949. pp.x.182, illus. 12s. 6d.* *(B) 109*

[See also *128*]

ZOOLOGY

M. Bates. The natural history of mosquitoes. *New York: Macmillan. 1949. pp.xv.379, pls., figs., tables. $5.* *(B) 110*

P. E. Brown and M. G. Davies. Reed warblers: an introduction to their breeding, biology and behaviour. *East Molesey, Surrey: Foy Publications, Ltd. 1949. pp.127, figs., pls. 12s. 6d.* *(A) 111*

W. T. Calman. The classification of animals: an introduction to zoological taxonomy. *Methuen. 1949. pp.vii.54.* (*Methuen's monographs of biological subjects.*) *4s. 6d.* (*B*) *112*

C. B. Hall. Ponds and fish culture, for pleasure or profit. *Faber. 1949. pp.244, 12 pls., text-figs. 18s.* (*B*) *113*

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H.M.S.O. : His Majesty's Stationery Office
L.G. : Longmans, Green
McG.-H. : McGraw-Hill
O. & B. : Oliver and Boyd
O.U.P. : Oxford University Press

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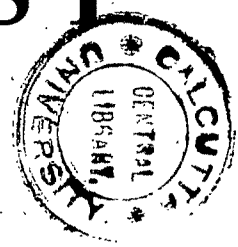

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PREFACE

THE main object of this monthly list is to provide libraries with a list of selected recent scientific and technical books. The selection has been made by those with special knowledge of the subjects. It is not claimed that the list is exhaustive and it is hoped that the range of subjects will gradually be extended.

The aim of the Publications Committee has been to secure the help of individuals and specialist organizations who are, for their own purposes, making as complete a survey as possible of the literature in their own fields and who are able to assess the relative merits of new publications. This object has already been largely achieved : over seventy specialist organizations are generously helping Aslib in this way.

The notes in inverted commas are quoted from reviews or from the recommending experts; those in square brackets are amplifications of the title compiled in the Aslib office from information supplied by the publishers.

Only books in the English language and, with few exceptions, those published within the previous six months, have been included. The limitation with regard to date, however, has been stretched sometimes in the case of books published abroad or those on very specialized subjects.

The place of publication is London unless otherwise stated.

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The works recommended are set out for convenience under broad main headings following the order of the Universal Decimal Classification and are further classified by the following symbols :

(*A*) Books suitable for general readers, or books treating the subject in an introductory, elementary or general manner.

(*B*) Books of an intermediate degree of technicality or suitable as textbooks for students.

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A title-page, classified table of contents, and index are issued with the last number of each volume.

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[See *174*]

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General

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FUEL TECHNOLOGY

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CERAMICS

A. B. Searle. The clay-worker's handbook; a manual for all engaged in the manufacture of articles from clay. 5th ed. *Griffen. 1949. pp.392. 26s.* 'A practical manual on the machinery, mechanical handling, drying, kilns, etc., of the clayworking industry.' *(C) 236*

RUBBER

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Yearbook of the Textile Institute, 1949-50. *Manchester: The Institute, 16 St. Mary's Parsonage. 1949. pp.xvi.258. 10s.* *(D) 241*

BUILDING

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TOWN AND COUNTRY PLANNING

[See *243*]

ARCHITECTURE

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BIOGRAPHY

[See *177*]

Addendum:

Vol. 14, No. 11, No. 874. L. F. Stemp and R. A. Wing. The Gas Act, 1948. Butterworth. 1949.

Our attention has been called to the fact that this book is Statutes Supplement No. 54 of Butterworth's Annotated Legislation Service.

PUBLISHERS

A LIST of British publishers is enclosed with the first issue of each year. The following abbreviations are used in the *Aslib Book-List :*

A. & U. : Allen & Unwin
C. & H. : Chapman and Hall
C.U.P. : Cambridge University Press
H.M.S.O. : His Majesty's Stationery Office
L.G. : Longmans, Green
McG.-H. : McGraw-Hill
O. & B. : Oliver and Boyd
O.U.P. : Oxford University Press

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APRIL 1950
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PREFACE

THE main object of this monthly list is to provide libraries with a list of selected recent scientific and technical books. The selection has been made by those with special knowledge of the subjects. It is not claimed that the list is exhaustive and it is hoped that the range of subjects will gradually be extended.

The aim of the Publications Committee has been to secure the help of individuals and specialist organizations who are, for their own purposes, making as complete a survey as possible of the literature in their own fields and who are able to assess the relative merits of new publications. This object has already been largely achieved : over seventy specialist organizations are generously helping Aslib in this way.

The notes in inverted commas are quoted from reviews or from the recommending experts; those in square brackets are amplifications of the title compiled in the Aslib office from information supplied by the publishers.

Only books in the English language and, with few exceptions, those published within the previous six months, have been included. The limitation with regard to date, however, has been stretched sometimes in the case of books published abroad or those on very specialized subjects.

The place of publication is London unless otherwise stated.

The regular transactions of societies are not included.

The works recommended are set out for convenience under broad main headings following the order of the Universal Decimal Classification and are further classified by the following symbols :

(*A*) Books suitable for general readers, or books treating the subject in an introductory, elementary or general manner.

(*B*) Books of an intermediate degree of technicality or suitable as textbooks for students.

(*C*) Books of an advanced or specially technical character.

(*D*) Directories, dictionaries, handbooks, lists and catalogues, encyclopædias, year-books, and similar publications.

A title-page, classified table of contents, and index are issued with the last number of each volume.

ASLIB BOOK-LIST

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MATHEMATICS

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O. Klein. Warne's metric conversion tables; computed by Scientific Computing Service, Ltd., containing 80 tables showing the conversion of Imperial or American measures into the metric system and vice-versa, including measures of weight, length, speed, surface, volume and capacity, and reduction, thermometer and pressure tables. *Warne. 1950. pp.104, 80 tables. 15s.* *(D) 245*

Machinery's five-figure log book (direct reading); including logarithms of trigonometrical functions. 2nd ed., enl. *Brighton: Machinery Publishing Co., National House, West St. 1949. pp.139. 5s. 6d.* *(D) 246*

ASTRONOMY

M. Myerscough and W. Hamilton. Rapid navigation tables. 2nd ed. *Pitman. 1950. pp.114, tables. 17s. 6d.* 'In this edition, these tables are extended to cover all latitudes and declinations, and their accuracy is increased to meet the requirements of marine navigation. They provide a quick and simple method for the calculation of astronomical position lines.' *(B) 247*

[See also *249*]

PHYSICS

H. F. Boulind. Hydrostatics, mechanics and sound. *J. Murray. 1949. pp.vii.306, diagrs. 7s. 6d.* *(B) 248*

S. Chandrasekhar. Radiative transfer. *Oxford: Clarendon Press. 1950. pp.393, figs. (International monographs on physics.) 35s.* 'The book is a mathematical study of the radiation field in stellar atmospheres.' *(C) 249*

E. Ower. The measurement of air flow. 3rd ed. rev. *C. & H. 1949. pp.293, 101 figs. 30s.* 'In this edition the book has been extensively revised to bring it up to date. There is a new chapter on flow in pipes, regarding it now as an example of boundary-layer flow. A section has been added which deals with flow in curved pipes, and with the use of guide vanes to reduce losses in bends.' *(B) 250*

D. Schoenberg. Magnetism. *Sigma Books Limited, 7 John St., Bloomsbury, W.C.1. 1949. pp.x.216, illus., diagrs. (Introduction to Science series, No. 12.) 10s. 6d.* 'This book on magnetism sets a high standard as an introduction to magnetic theory.' *(B) 251*

OPTICS

A. G. Bennett. Optics of contact lenses. *Hatton Press, 72 Fleet St., E.C.4. pp.vi.81, tables, diagrs. 7s. 6d.* 'A work which deals entirely with the optical aspects of contact lens prescribing.' *(B) 252*

CHEMISTRY

W. S. Penn. High polymeric chemistry. *C. & H. 1949. pp.xvi.487. 36s.* *(C) 253*

M. J. N. Pourbaix. Thermodynamics of dilute aqueous solutions, with applications to electrochemistry and corrosion. Transl. by J. N. Agar; with a foreword by U. R. Evans. *E. Arnold. 1949. pp.xvi.136, 27 diagrs. 30s.* 'In this important book the author has developed a general method for calculating the equilibrium conditions in reactions in dilute aqueous solutions, based upon generalized thermodynamical equations.' *(C) 254*

K. H. Saunders. The aromatic diazo-compounds and their technical applications. 2nd ed. rev. *E. Arnold. 1950. pp.xi.442, tables. 50s.* 'The book has been revised up to 1947.' *(C) 255*

A. E. van Arkel. Molecules and crystals in organic chemistry. Transl. from the Dutch by J. C. Swallow. *Butterworth. 1949. pp.ix.234. 17s. 6d.* *(B) 256*

H. B. Weiser. A textbook of colloid chemistry. 2nd ed. *New York: Wiley; London: C. & H. 1949. pp.444. $5.50 or 44s.* 'On the theory of colloids, with some practical applications. There are sections on adsorption, sols, gels, emulsions and foams, aerosols, contact catalysis, and dyeing.' *(C) 257*

GEOLOGY

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I. O. Evans. The observer's book of British geology: describing the principal rocks, minerals and fossils; foreword by H. L. Hawkins. *Warne. 1950. pp.266, illus., maps, diagrs. (Observer's pocket series.) 5s.* 'This is an excellent book for the man in the street to know something about geology.' *(A) 260*

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C. Aldred. Old Kingdom art in Ancient Egypt. *Alec Tiranti, Ltd., 72 Charlotte St., W.1. 1949. pp.vii.40, 71 plates. 6s. (A) 262*

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Tang Pei-Sung. Green thraldom; essays of a Chinese biologist. *A. & U. 1949. pp.127. 12s. 6d.* 'These essays are based on investigations undertaken during the war years and deal with the application of physiological and biochemical findings to national affairs.' *(A) 263*

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W. H. Walter. Walter's horse-keepers' encyclopedia. *Andrew George Elliot, Glade House, Kingswood, Surrey. 1950. pp.ix.194, illus. 5s.* 'The title does not mean that this book has been arranged as an A–Z reference work. It does mean, however, that the publishers and author have produced a guide that covers all aspects of the subject that concern the owner and horse-lover.' (*A*) *273*

ENGINEERING

General

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H. T. Jessop and F. C. Harris. Photoelasticity: principles and methods. *Cleaver-Hume. 1949. pp.184, 164 illus., diags. 28s.* 'The book is a most useful introduction to the subject especially as a preparatory text for a study of the more advanced works by Coker, Filon and Frocht.' (*B*) *276*

B. W. Pendred, *ed.* Kempe's engineer's year-book, 1949. 2 vols. *Morgan Brothers (Publishers), Ltd., 28 Essex St., Strand, W.C.2. 1949. pp.1529, 1408. 60s.* 'A regular scheme for revisions has now been adopted. For 1949 vol. 2 has had major revisions, whilst in vol. 1 only day-to-day revisions have been made. In 1950 the major revisions will be confined to vol. 1, and in 1951 there will be general revisions to the whole work, but no major changes.' (*D*) *277*

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E. P. Willoughby. Carburettors and the fuel system. 2nd ed. *Temple Press. 1949. pp.63, illus. (The Modern Car easy guide series No. 5.) 2s. (B) 280*

Electrical Engineering

L. L. Langton. Radio-frequency heating equipment: with particular reference to the theory and design of self-excited power oscillators. *Pitman. 1949. pp.196. 17s. 6d.* 'On eddy current heating and on dielectric heating, and their applications.' *(C) 281*

A. G. Peacock, *ed.* A symposium on electronics in research and industry; papers read at the 1st symposium in scientific research and industry, 1948. *C. & H. 1949. pp.xiii.199, illus. 16s.* 'The symposium comprises 11 papers by authors associated with well-known firms, together with the report of the discussions. The whole comprises a useful survey of recent developments in the application of electronic methods to the solution of instrument problems.' *(C) 282*

Electrical Communications

F. J Camm, *ed.* Newnes' short-wave manual; a treatise on the design, construction, operation and adjustment of short- and ultra-short-wave receivers, aerials and equipment, with designs for seven short-wave receivers. 7th ed. *Newnes. 1949. pp.200, 100 illus. 6s. (B) 283*

F. J. Camm. Radio engineer's pocket book. 9th rev. ed. *Newnes. 1949. pp.207, tables. 5s.* 'A revised and greatly enlarged edition containing facts, figures and formulae of use to engineers, circuit designers and radio operators.' *(B) 284*

Radio Society of Great Britain. Amateur radio receivers. *The Society, New Ruskin House, Little Russell St., W.C.1. 1949. pp.96, select. bibliog. 3s. 6d.* 'Should prove a very useful handbook for the home constructor and amateur wireless enthusiast.' *(A) 285*

Mechanical

American Society of Tool Engineers. Tool engineers' handbook; a reference book on all phases of planning, control, design, tooling, and operations in the mechanical manufacturing industries. [Prepared by] handbook committee: E. W. Ernest, chairman; F. W. Wilson, *ed. New York and London: McG.-H. pp.ix.2070, illus. $15 or 127s. 6d. (C) 286*

The Oil Engine and Gas Turbine. Oil engine manual. 5th ed. *Temple Press. 1949. pp.xvi.334. 15s.* 'The general information given in the first part of the book has been extended in range and detail, while the particulars of current British oil-engine designs given in subsequent sections have been rearranged and condensed to facilitate reference.' *(B) 287*

B. Osborne. Modern motor cycle maintenance. *Temple Press. 1949. pp.xvi.210, illus. 5s.* *(B) 288*

S. Reibel. Trolley conveyors. *McG.-H. 1949. pp.265. 24s.* 'On the layout, operation and maintenance of the overhead trolley conveyor.' *(C) 289*

P. H. Schweitzer. Scavenging of two-stroke cycle Diesel engines. *London and New York: Macmillan. 1949. pp.268. 55s.* *(C) 290*

M. C. Shaw and E. F. Macks. Analysis and Lubrication of bearings. *McG.-H. 1949. pp.618, bibliog. 65s.* 'This is an excellent work on shaft bearings.' *(C) 291*

[See also *313*

MILITARY

J. S. Cowie. Mines, minelayers and minelaying. *O.U.P. 1949. pp.230. 18s.* 'On the development of these subjects from their early days until recent times.' *(C) 292*

SANITARY

[See *317, 318*

MINING

Canadian Mines Handbook, 1949. *Toronto: Northern Miner Press, Ltd., 122 Richmond St., West. 1949. pp.340.* $2. 'Part 1 lists 760 active mining companies giving, wherever possible, full details such as finance and dividends, directors, history, subsidiaries, properties, plants, production, etc. Part 2 lists, much more briefly, 7,705 inactive dormant or defunct mining companies.' *(D) 293*

J. Spalding. Deep mining. *Mining Publications, Limited, 482 Salisbury House, E.C.2. 1949. pp.viii.405. 40s.* *(B) 294*

[See also *258*

AGRICULTURE

H. G. Sanders. An outline of British crop husbandry. 2nd ed. rev. *C.U.P. 1949. pp.viii.356, 6 pls. 18s.* 'First edition 1939. This edition has been revised throughout and has been entirely reset.' *(B) 295*

H. A. Wallace and E. N. Bressman. Corn and corn-growing. 5th ed. rev. by J. J. Newlin, E. Anderson and E. N. Bressman. *New York: Wiley; London: C. & H. 1949. pp.vii.424. 36s. or $4.50.* *(B) 296*

FORESTRY

A. E. Wackerman. Harvesting timber crops. *McG.-H. 1949. pp.xii.437. 30s.* *(B) 297*

HORTICULTURE

N. F. Childers. Fruit science: orchard and small fruit management. Ed. by R. W. Gregory. *New York and London: Lippincott. 1949. pp.ix.630, illus. maps. $5 or 40s.* *(B) 298*

C. P. Quarrell. Intensive salad production, including some vegetables. 4th ed. rev. *C. Lockwood. 1949. pp.xviii.277. 15s.* (*B*) *299*

SOIL SCIENCE

P. J. Kramer. Plant and soil relationships. *McG.-H. 1949. pp.xiii.347. 38s. 6d.* (*B*) *300*

G. W. Robinson. Soils; their origin, constitution and classification, an introduction to pedology. 3rd ed. rev. 1949. *Thomas Murby and Co., 40 Museum St., W.C.1. pp.xxi.573. 32s.* (*B*) *301*

TRANSPORT

ABC of British Railway locomotives. *Ian Allan, 282 Vauxhall Bridge Road, S.W.1. 1949. pp.298, illus. 8s. 6d.* 'Classifies all British Railway locomotives under regional headings.' (*D*) *302*

F. C. Bowen. Port of London. *Dryden Periodicals Ltd., 119 Oxford St., W.1. 1949. pp.216. 21s.* 'Gives particulars of docks and wharves.' (*D*) *303*

C. F. Klapper, *ed.* Buses and trams. *Ian Allan, 282 Vauxhall Bridge Road, S.W.1. 1949. pp.96, photographs. 8s. 6d.* 'Historical references are copious and surprisingly detailed.' (*A*) *304*

INDUSTRIAL ORGANIZATION

W. W. Bigg. Cost accounts. 6th ed. rev. and enl. *Macdonald and Evans. 1950. pp.xii.331, tables. 12s. 6d.* 'The author has expanded considerably the chapter dealing with standard costing to include budgetary control and has also devoted some space to the question of introducing standard costing principles into ordinary financial accounts.' (*B*) *305*

H. Fayol. General and industrial management. Transl. from the French by C. Storrs. *Pitman. 1949. pp.110. 15s.* 'A translation of a classic work on the elements of management the original of which appeared in French in 1916. The emphasis is on the human aspect.' (*C*) *306*

B. E. Goetz. Management planning and control; a managerial approach to industrial accounting. *McG.-H. 1949. pp.294. 22s. 6d.* 'Although this study sets out to develop a method of accounting which shall supply management with the means of solving its problems, the emphasis is on management—it is not a textbook of cost accounting, but is concerned rather with managerial use of accounting data.' (*C*) *307*

C. C. Plumbe. Factory well-being. *Seven Oaks Press, Ltd., 165 Victoria St., S.W.1. 1949. pp.126. 12s. 6d.* (*C*) *308*

CHEMICAL TECHNOLOGY

B. L. Davies. Technology of plastics; manufacture, structure and design. *Pitman. 1949. pp.421. 37s. 6d.* (*C*) *309*

T. P. Hilditch. The industrial chemistry of the fats and waxes. 3rd ed. *Baillière. 1949. pp.xi.604. 27s. 6d.* 'Revised to 1949.' (*C*) *310*

H. R. Simonds, A. J. Weith and M. H. Bigelow. Handbook of plastics. 2nd ed. *New York: Van Nostrand; London: Macmillan. 1949. pp.1511. $25 or 187s. 6d.* 'This edition has been thoroughly revised and contains much new matter on the industry, commercial materials, characteristics of plastics, textile fibres including nylon, laminates and plywoods, plant, processes, and chemistry.' *(C) 311*

[See also *25*.]

FUEL TECHNOLOGY

W. L. Nelson. Petroleum refinery engineering. 3rd ed. *McG.-H. 1949. pp.830. 54s.* 'This edition contains new matter on plant operation and on processes, e.g. catalytic cracking.' *(C) 312*

E. Wright and H. F. P. Purday. Diesel engine fuels and lubricants. *Constable. 1950. pp.viii.152, illus., tables, diagrs. 12s. 6d.* 'The authors' aim has been to produce a handy reference book for those in charge of Diesel engines.' *(A) 313*

[See also *28*.]

METALLURGY

C. G. Goetzel. Treatise on powder metallurgy. Vol. 1: Technology of metal powders and their products. *New York and London: Interscience Publishers. 1949. pp.778. $15 or 120s.* *(C) 314*

I. F. Marcosson. Metal magic: the story of the American Smelting and Refining Company. *New York: Farrar, Straus and Company, 53 East 34th St., New York, 16. 1949. pp.313. $4.50.* *(A) 315*

S. Plumley and T. B. Jefferson. Oxyacetylene welding and cutting; a course of instruction. 4th ed. *McG.-H. 1949. pp.256. 39s.* *(C) 316*

[See also *254*, *293*]

MANUFACTURES

PLASTICS

[See *309*, *311*]

WOOD

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BUILDING

Herbert Herkimer and Harold Herkimer. Air conditioning. *New York: Chemical Publishing Co.; London: C. & H. 1949. pp.ix.692, illus. $5 or 40s.* *(C) 317*

L. J. Overton. Central heating: a comprehensive up-to-date textbook covering the principles and practice of central heating for students and engineers. *C. Lockwood. 1949. pp.xv.322, 160 figs. 21s.* *(B) 318*

D. A. G. Reid. Building science. Vol. 1. *Lg. 1950. pp.160, 132 diagrs. 6s.* 'Gives a good elementary introduction to such subjects as the properties of materials, chemistry, mechanics, and physics. The treatment is thoroughly up to date.' *(B) 319*

PUBLISHERS

A LIST of British publishers is enclosed with the first issue of each year. The following abbreviations are used in the *Aslib Book-List :*

A. & U. : Allen & Unwin
C. & H. : Chapman and Hall
C.U.P. : Cambridge University Press
H.M.S.O. : His Majesty's Stationery Office
L.G. : Longmans, Green
McG.-H. : McGraw-Hill
O. & B. : Oliver and Boyd
O.U.P. : Oxford University Press

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ASLIB BOOK-LIST

MONTHLY RECOMMENDATIONS OF
RECENTLY PUBLISHED
SCIENTIFIC AND TECHNICAL BOOKS

VOLUME 15. NUMBER 5
MAY 1950
Nos. 320-399

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PREFACE

THE main object of this monthly list is to provide libraries with a list of selected recent scientific and technical books. The selection has been made by those with special knowledge of the subjects. It is not claimed that the list is exhaustive and it is hoped that the range of subjects will gradually be extended.

The aim of the Publications Committee has been to secure the help of individuals and specialist organizations who are, for their own purposes, making as complete a survey as possible of the literature in their own fields and who are able to assess the relative merits of new publications. This object has already been largely achieved : over seventy specialist organizations are generously helping Aslib in this way.

The notes in inverted commas are quoted from reviews or from the recommending experts ; those in square brackets are amplifications of the title compiled in the Aslib office from information supplied by the publishers.

Only books in the English language and, with few exceptions, those published within the previous six months, have been included. The limitation with regard to date, however, has been stretched sometimes in the case of books published abroad or those on very specialized subjects.

The place of publication is London unless otherwise stated.

The regular transactions of societies are not included.

The works recommended are set out for convenience under broad main headings following the order of the Universal Decimal Classification and are further classified by the following symbols :

(*A*) Books suitable for general readers or books treating the subject in an introductory, elementary or general manner.

(*B*) Books of an intermediate degree of technicality or suitable as textbooks for students.

(*C*) Books of an advanced or specially technical character.

(*D*) Directories, dictionaries, handbooks, lists and catalogues, encyclopædias, year-books, and similar publications.

A title-page, classified table of contents, and index are issued with the last number of each volume.

ASLIB BOOK-LIST

Volume 15. Number 5. May 1950

PHILOSOPHY

R. E. D. Clark. The universe; plan or accident? The religious implications of modern science. *Paternoster Press. 1949. pp.192.* (*Second thoughts library, No. 4.*) *6s.* 'The author considers the vexed question of the conflict between science and religion which has become more pressing with the advent of the atomic age.' (*A*) *320*

PSYCHOLOGY

T. Reik. The inner experience of a psychoanalyst. *A. & U. 1950. pp.xiv.514. 21s.* (*A*) *321*

L. L. Thurstone. A factorial study of perception; published for the Psychometric Society. *Chicago: Univ. of Chicago Press; London: C.U.P. 1949. pp.vi.148, illus. $2.50 or 19s.* (*C*) *322*

EDUCATION

J. C. Daniels. Teachers' handbook of test construction, marking and records. *C. Lockwood. 1949. pp.79. 4s. 6d.* (*C*) *323*

National Union of Teachers. Nursery-infant education; report of a consultative committee appointed by the executive of the National Union of Teachers. [Chairman of consultative committee: Miss Lillian de Lissa.] *Evans Bros. 1949. pp.112, illus. 5s.* (*B*) *324*

J. Newsom. The child at school. *Harmondsworth, Middlesex: Penguin Books. 1950. pp.176. 1s. 6d.* (*A*) *325*

F. F. Potter. Educational journey; memories of fifty years in public education. *Pitman. 1949. pp.vii.181. 15s.* (*A*) *326*

Scottish Council for Research in Education. The trend of Scottish intelligence; a comparison of the 1947 and 1932 surveys of the intelligence of eleven-year-old pupils. Sponsored by the Population Investigation Committee and Scottish Council for Research in Education. [Chairman of Mental Survey Committee: *Sir* Godfrey H. Thomson.] *Univ. of London Press. 1949. pp.xxxvii.151. 7s. 6d.* (*C*) *327*

M. M. Wells and P. S. Taylor, *eds.* The new law of education. 3rd ed. *Butterworth. 1949. pp.xx.644.64. 21s.* (*C*) *328*

[See also *397*]

DICTIONARIES

E. F. Allen. Dictionary of abbreviations and symbols. *Gassell. 1950. pp.vi.210. 7s. 6d.* (*D*) *329*

R. N. Thompson and G. Haim, *comps. and eds.* Welding dictionary: French-German-Spanish-English. *Louis Cassier Co., Ltd., Dorset House, Stamford St., S.E.1. 1950. pp.234. 21s.* (*D*) *330*

PHYSICS

M. Benedict and C. Williams, *eds.* Engineering developments in the gaseous diffusion process. *McG.-H. 1949. pp.xx.129, illus.* (*National nuclear energy series, Manhattan project technical section, division 2, vol. 16.*) *$1.25 or 11s.* (*C*) *331*

C. L. Boltz. Physics. *Harrap. 1950. pp.384, 115 diagrs.* (*Harrap's Torch Books.*) *10s. 6d.* 'This book is a popular yet scholarly exposition of some of the fundamentals of physics and their everyday applications.' (*A*) *332*

C. Candler. Practical spectroscopy. *Hilger and Watts, Ltd., 48 Addington Sq., S.E.5. 1949. pp.190. 21s.* (*C*) *333*

S. C. Curran and J. D. Craggs. Counting tubes: theory and application. *Butterworth's Scientific Publications. 1950. pp.xi.238, 119 figs.* (*Laboratory technique monograph.*) *35s.* (*C*) *334*

A. Linford. Flow measurement and meters. *Spon. 1949. pp.xx.21-336, tables, diagrs., bibliog.* (*Mechanical engineering series, edited by N. Tetlow.*) *30s.* (*C*) *335*

M. Reiner. Deformation and flow: an elementary introduction to theoretical rheology. *H. K. Lewis. 1949. pp.346. 32s. 6d.* (*C*) *336*

L. R. G. Treloar. Physics of rubber elasticity. *O.U.P. 1949. pp.262, illus.* (*Monographs on the physics and chemistry of materials.*) *21s.* (*C*) *337*

CHEMISTRY

B. Jaffe. Crucibles: the story of chemistry from ancient alchemy to nuclear fission. 3rd rev. ed. *Hutchinson's Scientific and Technical Publications. 1950. pp.xii.480. 18s.* 'This third edition has been revised throughout and has four entirely new chapters covering the latest developments.' (*A*) *338*

[See also *396*]

GEOLOGY

J. S. Brown. Ore genesis: a metallurgical interpretation; an alternative to the hydrothermal theory. *T. Murby, 40 Museum St., W.C.1. 1950. pp.204, tables, diagrs. 12s. 6d.* (*C*) *339*

ARCHAEOLOGY

R. Broom. Finding the missing link: an account of recent discoveries throwing new light on the origin of man. *Watts & Co., 5 & 6 Johnson's Court, Fleet St., E.C.4. 1950. pp.vi.104, illus. 6s.* 'The recent discoveries which are described at length are those of the fossil remains of the Taungs, Stekfontein and Kromdraal ape-men in South Africa.' *(B) 340*

***Sir* Arthur Keith.** An autobiography. *Watts & Co., 5 & 6 Johnson's Court, Fleet St., E.C.4. 1950. pp.v.721, pls. 25s.* *(A) 341*

K. P. Oakley. Man the tool-maker. *British Museum (Natural History). 1949. pp.v.98, 2 pls., 1 chart, 41 figs. 2s. 6d. (unbound).* *(B) 342*

GEOPHYSICS

H. Jeffreys. Earthquakes and mountains. 2nd ed. rev. *Methuen. 1950. pp.xi.191, pls., maps, diagrs. 12s. 6d.* 'Same chapter headings as previous edition, plus eight extra pages.' *(A) 343*

METEOROLOGY

C. O. Wisler and E. F. Brater. Hydrology. *New York: Wiley; London: C. & H. 1949. pp.xi.419, illus., maps. $6 or 48s.* 'Is concerned with the study of rainfall and ground water, what happens to it and what part of it can be used for water supply.' *(C) 344*

[See also *343*]

BIOLOGY

K. Mather. Statistical analysis in biology. 3rd ed. *Methuen. 1949. pp.267, 9 diagrs. 16s.* *(C) 345*

BOTANY

A. D. Rodgers. Liberty Hyde Bailey; a story of American plant sciences. *New Jersey: Princeton Univ. Press; London: O.U.P. 1949. pp.viii.506, 7 pls. $7.50 or 42s.* *(A) 346*

ZOOLOGY

M. Abbott. The life of William T. Davis. *Ithaca, N.Y.: Cornell Univ. Press; London: O.U.P. 1949. pp.xiii.321, pls. $3.50.* 'William T. Davis was a well-known naturalist who spent a lifetime on Staten Island.' *(A) 347*

G. E. Hyde. A pocket-book of British insects. *Black. 1950. pp.144, 72 illus. (15 col.). 7s. 6d.* *(A) 348*

G. D. Schafer. The ways of a mud dauber. *Stanford: Stanford Univ. Press; London: O.U.P. 1949. pp.78, 4 col. pls., 6 half-tone pls., 9 figs. $2.50 or 20s.* *(A) 349*

E. A. Steinhaus. Principles of insect pathology. *McG.-H. 1949. pp.ix.757, illus. (McGraw-Hill publications in the agricultural sciences.) $8 or 68s.* *(B) 350*

PUBLIC HEALTH

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ENGINEERING

L. E. Grinter, *ed.* Numerical methods of analysis in engineering (successive corrections) [by] Hardy Cross [and others]: a publication resulting from a symposium held at Illinois Institute of Technology, Chicago. *New York and London: Macmillan. 1949. pp.xvi.207. $5.50 or 45s.* (*C*) *351*

R. N. Haward. The strength of plastics and glass: a study in time-sensitive materials. *Cleaver-Hume. 1949. pp.245. 30s.* (*C*) *352*

J. G. Horner. Pattern-making for engineers; a practical treatise with an appendix of tables for reference. 8th ed. enlarged, by Philip Gates. *Technical Press. 1950. pp.xv.390, 587 illus. 18s.* (*C*) *353*

A. G. Pugsley, *ed.* Engineering structures. *Butterworth 1949. pp.vii.260, illus., figs. 25s. (21s. to 'Research' subscribers).* 'This book constitutes vol. 2 of the Colston Papers, based on a symposium promoted by the Colston Research Society and the University of Bristol in September 1949, now published as a Special Supplement to *Research*.' (*C*) *354*

[See also *331*]

AERONAUTICAL

G. G. Smith. Gas turbines and jet propulsion. 5th ed. *Iliffe. 1950. pp.386, illus. 21s.* 'Contains new chapters on ram and pulse jets; rockets; compound units; and applications to land transport. In an appendix are given summaries of recent major papers and discussions on the topic through May 1949.' (*B*) *355*

P. H. Wilkinson. Aircraft engines of the world, 1949. *Pitman. 1949. pp.324. 50s.* (*D*) *356*

A. D. Turnbull and C. L. Lord. History of U.S. naval aviation. *New Haven, Conn.: Yale Univ. Press; London: O.U.P. 1949. pp.xii.345, illus. $5 or 40s.* (*A*) *357*

[See also *399*]

AUTOMOBILE

W. A. G. Martin. The book of the Wolseley; a complete guide to all 9 h.p., 10 h.p., 12 h.p. models from 1932 to 1938 and to all 1948 models. With a foreword by J. Graham Reece. 2nd rev. ed. *Pitman. 1949. pp.ix.134, illus., diagrs. (Pitman's motorist's library.) 4s.* 'The value of the work is enhanced by the fact that the proofs were read by the Service Department of Wolseley Motors Ltd.' (*B*) *358*

L. Pomeroy and R. L. de B. Walkerley, *comps. The Motor* year book, 1950. *Temple Press Ltd., Bowling Green Lane, E.C.1. 1950. pp.xxxix.199, illus. 12s. 6d.* (*D*) *359*

CIVIL

J. M. Rodger. Civil engineering drawings, specifications and quantities. Ed. and rev. by F. J. Crabbe. *Benn. 1949. pp.xvi.272, 41 illus. 25s.* *(B) 360*

[See also *371*, *384*, *385*]

ELECTRICAL

H. A. Miller. Cold cathode fluorescent lighting. *Technical Press. 1949. pp.130. 10s. 6d.* *(C) 361*

E. Molloy, *general ed.* Electric wiring (domestic); a practical work for installation engineers, contractors and electric wiremen. 4th ed. *Newnes. 1950. pp.vii.248, illus., tables, diagrs.* (*Newnes' 'Electrical engineer' series, No. 1.*) *7s. 6d.* 'This new edition covers all post-war developments in codes of practical and available equipment.' *(B) 362*

ELECTRICAL COMMUNICATIONS

F. J. Camm. Wireless coils, chokes and transformers; with special chapters on selectivity, breakthrough, coil winders, coil troubles and their remedies. 8th ed. *Newnes. 1950. pp.182, diagrs., illus., tables. 6s.* 'First published in 1937, this edition is claimed to be fully revised to include new material, but no further details are given of the changes made.' *(A) 363*

D. W. Fry and F. K. Goward. Aerials for centimetre wave-lengths. *C.U.P. 1950. pp.x.172, diagrs.* (*Modern radio technique series.*) *18s.* *(C) 364*

MARINE

L. Baker. Design of marine water-tube boilers. *Griffin. 1950. pp.viii.415, illus. 45s.* *(C) 365*

MECHANICAL

S. J. Davies. Heat pumps and thermal compressors. *Constable. 1950. pp.126. 9s.* 'This book is based on a series of lectures delivered at King's College, London.' *(C) 366*

G. T. Jones. Portable power tools and equipment. *C. Lockwood. 1949. pp.197, illus. 15s.* *(A) 367*

SANITARY

[See *386*]

PRINTING

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H.M.S.O. : His Majesty's Stationery Office
L.G. : Longmans, Green
McG.-H. : McGraw-Hill
O. & B. : Oliver and Boyd
O.U.P. : Oxford University Press

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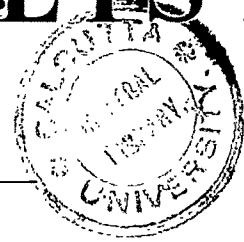

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THE main object of this monthly list is to provide libraries with a list of selected recent scientific and technical books. The selection has been made by those with special knowledge of the subjects. It is not claimed that the list is exhaustive and it is hoped that the range of subjects will gradually be extended.

The aim of the Publications Committee has been to secure the help of individuals and specialist organizations who are, for their own purposes, making as complete a survey as possible of the literature in their own fields and who are able to assess the relative merits of new publications. This object has already been largely achieved : over seventy specialist organizations are generously helping Aslib in this way.

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Only books in the English language and, with few exceptions, those published within the previous six months, have been included. The limitation with regard to date, however, has been stretched sometimes in the case of books published abroad or those on very specialized subjects.

The place of publication is London unless otherwise stated.

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The works recommended are set out for convenience under broad main headings following the order of the Universal Decimal Classification and are further classified by the following symbols :

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A title-page, classified table of contents, and index are issued with the last number of each volume.

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PLASTICS

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A LIST of British publishers is enclosed with the first issue of each year. The following abbreviations are used in the *Aslib Book-List :*

A. & U. : Allen & Unwin
C. & H. : Chapman and Hall
C.U.P. : Cambridge University Press
H.M.S.O. : His Majesty's Stationery Office
L.G. : Longmans, Green
McG.-H. : McGraw-Hill
O. & B. : Oliver and Boyd
O.U.P. : Oxford University Press

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PREFACE

THE main object of this monthly list is to provide libraries with a list of selected recent scientific and technical books. The selection has been made by those with special knowledge of the subjects. It is not claimed that the list is exhaustive and it is hoped that the range of subjects will gradually be extended.

The aim of the Publications Committee has been to secure the help of individuals and specialist organizations who are, for their own purposes, making as complete a survey as possible of the literature in their own fields and who are able to assess the relative merits of new publications. This object has already been largely achieved : over seventy specialist organizations are generously helping Aslib in this way.

The notes in inverted commas are quoted from reviews or from the recommending experts ; those in square brackets are amplifications of the title compiled in the Aslib office from information supplied by the publishers.

Only books in the English language and, with few exceptions, those published within the previous six months, have been included. The limitation with regard to date, however, has been stretched sometimes in the case of books published abroad or those on very specialized subjects.

The place of publication is London unless otherwise stated.

The regular transactions of societies are not included.

The works recommended are set out for convenience under broad main headings following the order of the Universal Decimal Classification and are further classified by the following symbols :

(*A*) Books suitable for general readers, or books treating the subject in an introductory, elementary or general manner.

(*B*) Books of an intermediate degree of technicality or suitable as textbooks for students.

(*C*) Books of an advanced or specially technical character.

(*D*) Directories, dictionaries, handbooks, lists and catalogues, encyclopædias, year-books, and similar publications.

A title-page, classified table of contents, and index are issued with the last number of each volume.

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[See also *479*]

PHILOSOPHY

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[See also *509*, *512*, *518*, *523*, *525*]

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[See also *543*]

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MINING

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G. W. Pickels and C. C. Wiley. Route surveying. 3rd ed. *New York: Wiley; London: C. & H. 1949. pp.xi.434. 28s. 6d.* 'There is a chapter on railway turnouts, connections, and crossings; another on distance, curvature and grades, gives data on freight-train resistance and charts on locomotive resistance, tractive effort and horse-power.' *(C) 529*

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D. Nield. Walls and wall facings. *Spon. 1949. pp.276, tables, diagrs., bibliog. 18s.* *(B) 544*

A. C. Pallot, *ed.* Principles and practice of heating and ventilating. 2nd ed. *Newnes. 1950. pp.vii.370, illus., tables. 25s.* 'First published in 1945. Edited by E. Molloy. New edition has been revised and rearranged to include the information contained in the Egerton Reports and in British Standards and Codes of Practice. A chapter has been added on district heating . . . and notes have been included on new developments.' *(B) 545*

F. F. Peters. Pour yourself a house. Low-cost building with concrete and stone. *McG.-H. 1949. pp.xii.217, pls., illus. 24s.* *(B) 546*

TOWN AND COUNTRY PLANNING

G. H. J. Daysh and others. Studies in regional planning. Outline surveys and proposals for the development of certain regions of England and Scotland. *George Philip. 1949. pp.xxiv.223, maps, illus. 25s.* *(B) 547*

ARCHITECTURE

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PHOTOGRAPHY

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A. W. Judge. Stereoscopic photography: its application to science, industry and education. 3rd ed. rev. *C. & H. 1950. pp.480, illus., pls., tables, diagrs., bibliog. 42s.* 'This edition embodies the many developments which have occurred since the beginning of the last war, in the U.S.A. and Europe, in aerial survey, astronomy, microscopy, X-rays, etc.' (*C*) *552*

BIOGRAPHY

[See *503*, *511*]

GEOGRAPHY

A. Gordon-Brown, *ed.* Yearbook and guide to East Africa. *Sampson Low, Marston & Co., Ltd. 1950. pp.425. 6s.* (*D*) *553*

A. Gordon-Brown, *ed.* Yearbook and guide to Southern Africa. *Sampson Low, Marston & Co., Ltd. 1950. pp.viii.768. 8s. 6d.* (*D*) *554*

Webster's geographical dictionary; a dictionary of names of places with geographical and historical information and pronunciations. *Springfield, Mass.: G. & C. Merriam Co. 1949. pp.xxxi.1293, maps (24 col.). $8.50.* (*D*) *555*

PUBLISHERS

A LIST of British publishers is enclosed with the first issue of each year. The following abbreviations are used in the *Aslib Book-List*:

A. & U. : Allen & Unwin
C. & H. : Chapman and Hall
C.U.P. : Cambridge University Press
H.M.S.O. : His Majesty's Stationery Office
L.G. : Longmans, Green
McG.-H. : McGraw-Hill
O. & B. : Oliver and Boyd
O.U.P. : Oxford University Press

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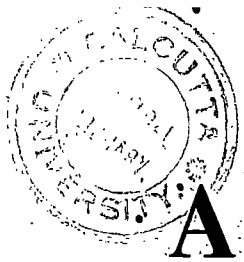

ASLIB BOOK-LIST

MONTHLY RECOMMENDATIONS OF RECENTLY PUBLISHED SCIENTIFIC AND TECHNICAL BOOKS

VOLUME 15. NUMBER 8
AUGUST 1950
Nos. 556-635

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PREFACE

THE main object of this monthly list is to provide libraries with a list of selected recent scientific and technical books. The selection has been made by those with special knowledge of the subjects. It is not claimed that the list is exhaustive and it is hoped that the range of subjects will gradually be extended.

The aim of the Publications Committee has been to secure the help of individuals and specialist organizations who are, for their own purposes, making as complete a survey as possible of the literature in their own fields and who are able to assess the relative merits of new publications. This object has already been largely achieved : over seventy specialist organizations are generously helping Aslib in this way.

The notes in inverted commas are quoted from reviews or from the recommending experts ; those in square brackets are amplifications of the title compiled in the Aslib office from information supplied by the publishers.

Only books in the English language are, with few exceptions, those published within the previous six months have been included. The limitation with regard to date, however, has been stretched sometimes in the case of books published abroad or those on very specialized subjects.

The place of publication is London unless otherwise stated.

The regular transactions of societies are not included.

The works recommended are set out for convenience under broad main headings following the order of the Universal Decimal Classification and are further classified by the following symbols :

(*A*) Books suitable for general readers, or books treating the subject in an introductory, elementary or general manner.

(*B*) Books of an intermediate degree of technicality or suitable as textbooks for students.

(*C*) Books of an advanced or specially technical character.

(*D*) Directories, dictionaries, handbooks, lists and catalogues, encyclopædias, year-books, and similar publications.

A title-page, classified table of contents, and index are issued with the last number of each volume.

ASLIB BOOK-LIST

Volume 15. Number 8. August 1950

SCIENTIFIC RESEARCH

C. E. K. Mees and J. A. Leermakers. The organization of industrial scientific research. 2nd [rev.] ed. *McG.-H. 1950. pp.ix.383, tables, diagrs. 42s. 6d.* 'The first edition of this book by C. E. K. Mees was published in 1930. The present text is virtually a new book, written in collaboration with J. A. Leermakers.' *(B) 556*

[See also *582*]

LIBRARIANSHIP

B. M. Frick, *ed.* List of subject headings; with practical suggestions for the beginner in subject heading work, by Minnie Earl Sears. 6th ed. *New York: H. W. Wilson. 1950. pp.xxx.558. $4.00.* *(B) 557*

PHILOSOPHY

O. F. Clarke. Introduction to Berdyaev. *Bles. 1950. pp.192, bibliog. 15s.* *(B) 558*

F. Copleston. A history of philosophy. Vol. 2: Mediaeval philosophy; Augustine to Scotus. *Burns, Oates & Washbourne. 1950. pp.x.614, bibliog. (Bellarmine series, No. 12). 25s.* *(C) 559*

E. W. F. Tomlin. The great philosophers: the western world. *Skeffington. 1950. pp.296, pls. 15s.* *(A) 560*

PSYCHOLOGY

F. Alexander. Fundamentals of psychoanalysis. *A. & U. 1950. pp.312. 16s.* *(B) 561*

S. H. Britt. Selected readings in social psychology. *New York: Rhinehart. 1950. pp.xvi.507. $2.00.* *(B) 562*

[See also *579*]

ECONOMICS

F. S. Bray. Social accounts and the business enterprise sector of the national economy. *C.U.P. 1949. pp.viii.100. (University of Cambridge Dept. of Applied Economics monographs, No. 2.) 10s. 6d.* *(C) 563*

[See also *608*]

EDUCATION

[See *609*]

DICTIONARIES

[See *565*, *628*]

MATHEMATICS

E. C. Berkeley. Giant brains; or machines hat think. *New York: Wiley; London: C. & H. 1949. pp.xvi.270. $4.0C or 32s.* *(C) 564*

G. and R. C. James, *eds.* Mathematics dictionary, by Armen A. Alchian [and others]. *New York: Van Nostrand; London: Macmillan. 1949. pp.v.432. $7.50 or 56s.* *(D) 565*

ASTRONOMY

A. Armitage. A century of astronomy. *Sampson Low. 1950. pp.256, 64 illus., pl. 8s. 6d.* *(A) 566*

F. Hoyle. The nature of the universe; a series of broadcast lectures. *Oxford: Blackwell. 1950. pp.v.121, pls. 5s.* *(A) 657*

A. Piccard. Between earth and sky. Trans. from the French by Claude Apcher, with a preface by Jean Lugeon. *Falcon Press. 1950. pp.157, illus., pls., maps, tables, diagrs. 15s.* *(A) 568*

PHYSICS

***Sir* W. L. Bragg.** A review of recent advances in X-ray analysis [by] *Sir* W. L. Bragg, and The impact of radioactivity on inorganic chemistry [by] **H. J. Emeleus:** post-graduate lectures given to the Oil and Colour Chemists' Association. *Cambridge: Heffer, for The Association. 1950. pp.99, illus., pls., diagrs., tables. 12s. 6d.* *(C) 569*

T. W. Bridgman. The physics of high pressure. New [2nd] impression with supp. *Bell. 1949. pp.viii.445, illus., pls., tables, diagrs. (International text-books on exact science, ed. by E. N. da C. Andrade.) 35s.* 'This edition is a photographic reprint of the 1931 edition, but the discussion on the compressibility of the five alkali metals . . is replaced by new material. . . . A 43-page supp. has been added on work since 1931, and the bibliographical appendix now goes up to 1948.' *(C) 570*

R. C. Brown. Mechanics and properties of matter. *L.G. 1950. pp.ix.276.ix, diagrs. 10s. 6d.* *(B) 571*

H. Dingle. Practical applications of spectrum analysis. *C. & H. 1950. pp.ix.245, pls., tables, diagrs. 40s.* *(C) 572*

R. W. Stewart and J. Satterly. Textbook of heat. Revised by H. N. V. Temperly. 3rd ed. *Univ. Tutorial Press. 1950. pp.420, illus., map, tables, diagrs. 9s. 6d.* 'New matter has been added on liquefaction of gases, and on meteorological application of convection.' *(B) 573*

[See also *593*, *599*]

CHEMISTRY

United States. Manhattan Project and Atomic Energy Commission. The chemistry and metallurgy of miscellaneous materials: thermodynamics. Ed. by L. L. Quill. *McG.-H. 1950. pp.xxii.329, tables, diagrs., bibliog. (National nuclear energy series, Manhattan Project Technical Section, Division 4. Plutonium Project Record, vol. 19B.)* (*C*) 574

[See also *569*]

CRYSTALLOGRAPHY

[See *621*]

GEOLOGY

T. W. E. David. The geology of the Commonwealth of Australia. Ed. by W. R. Brown. 3 vols. *Arnold. 1950. pp.747, 618, 5 maps in separate folder, illus., diagrs., tables, bibliogs. 252s.* (*C*) *575*

GEOPHYSICS

J. J. Jakosky. Exploration geophysics. 2nd ed. *Los Angeles: Trija Publishing Co. 1950. pp.xvi.1195, illus., diagrs., tables. $12.50 or 115s.* (*C*) *576*

METEOROLOGY

'Aeolus.' Teach yourself meteorology. *English Univ. Press. 1949. pp.138, illus. 4s. 6d.* (*A*) *577*

Meteorological Office. Aviation meteorology of the route Marseilles–Castel-Benito. *H.M.S.O. pp.42, illus. (Meteorological Report, vol. 1, No. 4.) 1s. 3d.* (*C*) *578*

ANTHROPOLOGY

R. Piddington. An introduction to social anthropology. Vol. 1. *Oliver and Boyd. 1950. pp.xxvi.442. 25s.* (*B*) *579*

BIOLOGY

W. S. Bullough. Practical invertebrate anatomy. *Macmillan. 1950. pp.xi.463, diagrs., bibliog. 28s.* (*B*) *580*

P. D. F. Murray. Biology; an introduction to medical and other studies. *Macmillan. pp.vii.600, illus., diagrs. 25s.* (*B*) *581*

F. M. Uber, *ed.* Biophysical research methods. Prepared by a group of specialists under the editorship of Fred M. Uber. *Interscience Publishers. 1950. pp.xi.667, illus., tables, diagr., bibliog. 76s.* (*C*) *582*

[See also *588*]

BOTANY

A. Arber. The natural philosophy of plant form. *C.U.P. 1950. pp.xiv.247, illus. 25s.* *(C) 583*

A. S. Crafts, H. B. Currier and C. R. Stocking. Water in the physiology of plants. *Waltham, Mass.: Chronica Botanica Co.: London: Wm. Dawson. 1949. pp.240, illus., bibliog. $6.00 or 30s.* *(C) 584*

E. Gäumann. Principles of plant infection; a textbook of general plant pathology for biologists, agriculturists, foresters and plant breeders. English ed. by William B. Brierley. *C. Lockwood. 1950. pp.xvi.543, figs. 63s.* *(B) 585*

[See also *590*]

ZOOLOGY

W. C. Allee, A. E. Emerson, O. Park, T. Park and K. P. Schmidt. Principles of animal ecology. *W. B. Saunders. 1949. pp.xii.837, illus. 70s.* *(C) 586*

S. T. Burfield. Chaetognatha. *British Museum. 1950. pp.14, tables, diagrs., bibliog. (Great Barrier Reef Expedition, 1928–29, scientific reports series, vol. 5, No. 8.) 2s. 6d.* *(C) 587*

F. B. Hutt. Genetics of the fowl. *McG.-H. 1949. pp.xi.590. $6.50 or 55s. 6d.* *(C) 588*

B. D. Moreton. Guide to British insects; an aid to identification. *Macmillan. 1950. pp.vii.188, figs. 8s. 6d.* 'Intended mainly for students of agriculture, farmers and gardeners, whose main need is to identify and classify insects, particularly those of economic importance.' *(A) 589*

W. H. Pearsall. Mountains and moorlands. *Collins. 1950. pp.xv.312, 81 photos (47 col.), 48 maps, diagrs. (The new naturalist series.) 21s.* *(A) 590*

F. A. Urquhart. Introducing the insect. *Toronto: Clarke, Irwin & Co. 1949. pp.x.287, pls., illus. $5.00.* *(B) 591*

[See also *580*]

HYGIENE

H. Jordan. Tropical hygiene and sanitation; a course of study and a reference book for sanitary inspectors in the tropics. 2nd ed. *Baillière, Tindall & Cox. 1950. pp.xii.357, diagrs., tables. (Baillière's elementary tropical handbooks.) 5s.* 'In this edition the scope has been extended to make it suitable for students in any tropical or sub-tropical country.' *(B) 592*

ENGINEERING

M. Fishenden and O. A. Saunders. An introduction to heat transfer. *O.U.P. 1950. pp.x.205, tables, diagrs., bibliog. 15s.* *(C) 593*

I. B. Hart. James Watt and the history of steam power. *New York: Schuman. 1949. pp.viii.250, pl. (Life of science library, 8.) $4.00.* *(A) 594*

P. S. Houghton. Engineering drawing and drawing office practice. *C. Lockwood. 1950. pp.x.277, diagrs., tables. 15s.* *(B) 595*

***Machinery's* Screw Thread book.** 15th ed. rev. *Brighton: Machinery Publishing Co., Ltd., National House, West St. 1950. pp.158, tables, 7s. 6d.* 'Has been completely revised and contains details of the unified thread system.' *(D) 596*

AERONAUTICAL

A. C. Clarke. Interplanetary flight; an introduction to astronautics. *Temple Press. 1950. pp.viii.164, illus., diagrs., tables.* (*Technical trends series.*) *8s. 6d.* *(A) 597*

J. L. Naylor. Modern aircraft design. *Temple Press. 1950. pp.vi.122, pls., diags.* (*Technical trends series.*) *8s. 6d.* *(A) 598*

ELECTRICAL

S. S. Attwood. Electric and magnetic fields. 3rd ed. *New York: Wiley; London: C. & H. 1949. pp.xi.475. $5.50 or 44s.* *(C) 599*

D. Karo. Electrical measurements and the calculation of the errors involved. Part 1. *Macdonald. 1950. pp.viii.191, tables, diagrs. 18s.* *(B) 600*

F. Scowen. An introduction to the theory and design of electric wave filters; with a foreword by *Sir* Archibald J. Gill. 2nd ed. rev. *C. & H. 1950. pp.xi.188, tables, diagrs. 18s.* 'Darlington's insertion-loss method of filter design is included in this edition.' *(C) 601*

[See also *564*]

HEAT

[See *573*]

MECHANICAL

C. H. Bradbury. Stationary compression ignition engines; principles and applications. *Spon. 1950. pp.xix.226, diagrs., illus., tables.* (*Mechanical engineering series, ed. by N. Tetlow.*) *24s.* *(B) 602*

R. Carter, and others. Pump questions and answers; covering the construction, application, operation, installation, maintenance, and troubles of centrifugal, reciprocating, regenerative, rotary and vertical turbine pumps. *McG.-H. 1949. pp.ix.346, illus. 42s.* *(B) 603*

F. H. Colvin and F. A. Stanley. Grinding practice: typical machines and methods used in a wide variety of work. 3rd ed. *McG.-H. 1950. pp.xiii.532, illus., diagrs., tables. 40s. 6d.* 'This revision incorporates the latest American practice in the operation and application of grinding machines and abrasive wheels.' *(C) 604*

E. N. Kemler and S. Oglesby. Heat pump applications. *McG.-H. 1950. pp.ix.300, illus., tables, diagrs., bibliog. 51s.* *(C) 605*

B. G. A. Skrotzki and W. A. Vopat. Steam and gas turbines. *McG.-H. 1950. pp.viii.395. 40s. 6d.* *(C) 606*

MINING

F. B. Mitchell. The practice of mineral dressing: a handbook of current practice and practical applications. *'Mine and Quarry Engineering.' 1950. pp.381, flowsheets, bibliogs. 30s.* *(B) 607*

AGRICULTURE

E. Dummeier, R. B. Heflebower and T. Norman. Economics with applications to agriculture. 3rd ed. *McG.-H. 1950. pp.xv.718. 42s. 6d.* *(B) 608*

C. Hammonds. Teaching agriculture. *McG.-H. 1950. pp.vii.353. 30s.* *(B) 609*

[See also *585*]

DAIRY FARMING

W. E. Petersen. Dairy science; its principles and practice. 2nd ed. *New York: Lippincott. 1950. pp.viii.680, illus., map. $5.00.* *(B) 610*

C. L. Roadhouse and J. L. Henderson. The market-milk industry. 2nd ed. *McG.-H. 1950. pp.716, illus. $7.00 or 52s. 6d.* *(C) 611*

L. L. Van Slyke and W. V. Price. Cheese; a treatise on the manufacture of American Cheddar cheese and some other varieties. 2nd ed. *New York: Judd; London: Routledge. 1949. pp.x.522, illus. $4.50 or 36s.* *(C) 612*

HORTICULTURE

W. H. Chandler. Evergreen orchards. *H. Kimpton. 1950. pp.452, figs., bibliog. 42s.* *(B) 613*

TRANSPORT

G. L. Wilson and L. A. Bryan. Air transportation. *New York: Prentice Hall. pp.ix.665, illus., maps. $7.65.* *(A) 614*

CHEMICAL TECHNOLOGY

P. Robitschek and A. Lewin. Phenolic resins; their chemistry and technology. *Iliffe. 1950. pp.261, diagrs., tables, illus. 30s.* *(B) 615*

[See also *625*]

FOOD TECHNOLOGY

V. L. S. Charley, and others. Recent advances in fruit-juice production. *Penglais, Aberystwyth: Commonwealth Agricultural Bureaux, Central Sales Branch. 1950. pp.176, illus., bibliogs. (Technical Communication, Commonwealth Bureau of Horticulture and Plantation Crops, No. 21.) 15s.* *(B) 616*

[See also *612*]

FUEL TECHNOLOGY

B. Miller. Gas transportation system calculations. *New York: Moore Pub. Co., Inc., 9 East 38th St., N.Y.16. 1949. pp.xiii.226. $7.50.* *(C) 617*

METALLURGY

Institution of Mining and Metallurgy. The refining of non-ferrous metals. Proceedings of a symposium held in London in July 1949. *The Institution, Salisbury House, Finsbury Circus, E.C.2. 1950. pp.534, illus., diagrs., tables, bibliogs. 40s.* *(B) 618*

Iron and steel directory and handbook, 1950. 6th ed. *Louis Cassier Co., Ltd., Dorset House, Stamford St., S.E.1. 1950. pp.302, tables. 25s.* 'The last edition of this directory appeared in 1939.' *(D) 619*

Murex Welding Processes, Ltd. Electric arc welding manual. Vol. 2: Metallurgy. *Waltham Cross, Herts: The Company. 1950. pp.182. 8s. 6d.* *(C) 620*

E. Schmidt and W. Boas. Plasticity of crystals with special reference to metals. Transl. from the German by F. A. Hughes & Co., Ltd. *The Company, Bath House, Piccadilly, W.1. 1950. pp.353. 35s.* *(C) 621*

P. L. Teed. The properties of metallic materials at low temperatures. *C. & H. 1950. pp.viii.222, pl., tables, diagrs., bibliog. (A series of monographs on metallic materials, published under the authority of the Royal Aeronautical Society, Vol. 1.) 21s.* *(B) 622*

L. R. Underwood. The rolling of metals. Vol. 1: Theory and experiment. *C. & H. 1950. pp.xv.344, diagrs., illus., tables, bibliog. 42s.* *(C) 623*

C. A. Zapffe. Stainless steels. *Cleveland: American Society of Metals. 1949. pp.368, illus. $5.00.* *(C) 624*

[See also 574]

MANUFACTURES

Lac

H. K. Sen and M. Venugopalan, *eds.* Practical applications of recent lac research. New [2nd] ed. *Bombay: Orient Longmans; London: L.G. 1950. pp.vi.123, pls., tables, diagrs., bibliog. 12s. 6d.* 'This edition includes details of recent developments of rubbery and flexible materials from lac by reaction with fatty acids.' *(C) 625*

Leather

J. V. A. Long. An introduction to shoemaking. *'Shoe and Leather News,' New Century Publishing Co., Ltd., Spencer House, South Place, Finsbury, E.C.2. 1950. pp.xviii.144, illus., diagrs. 3s. 6d.* *(B) 626*

Plastics

[See *615*]

TEXTILES

British Standards Institution. Methods of test for textiles. *The Institution. 1949. pp.311, 4 tables. (British Standards Handbook, No. 11.) 21s.* *(C) 627*

The 'Mercury' dictionary of textile terms. *Manchester: Textile Mercury, Ltd., 41 Spring Gardens. 1950. pp.524. 63s.* *(D) 628*

Skinner's wool trade directory of the world, 1949–50. *Thomas Skinner & Co., Ltd. 1950. pp.cxci.1284. 40s.* *(D) 629*

***Textile Recorder* book of the year, 1950.** *Harlequin Press, Ltd., 20 Irving St., W.C.2. 1950. pp.230. 21s. (Free to subscribers of the 'Textile Recorder'.)* *(D) 630*

BUILDING

W. J. Pearce. Painting and decorating. 7th ed. by A. E. Hurst. *Griffin. 1949. pp.xi.470, pls., illus. 32s.* *(C) 631*

W. Morgan. Elementary reinforced concrete design. *Arnold. 1950. pp.viii. 303, diagrs., tables. 16s.* *(B) 632*

TOWN AND COUNTRY PLANNING

C. B. Purdon. The building of satellite towns; a contribution to the study of town development and regional planning. 2nd ed. *Dent. 1949. pp.xx. 532, pls., illus. 50s.* *(B) 633*

ARCHITECTURE

H. Burris-Meyer and E. C. Cole. Theatres and auditoriums. *New York: Reinhold. 1949. pp.viii.228, illus. $8.00.* *(B) 634*

PHOTOGRAPHY

S. B. C. Williams. Enlarging for the amateur. *G. Newnes. 1950. pp.123, illus., tables, diagrs. 6s.* *(A) 635*

BIOGRAPHY

[See *594*]

PUBLISHERS

A LIST of British publishers is enclosed with the first issue of each year. The following abbreviations are used in the *Aslib Book-List :*

A. & U. : Allen & Unwin
C. & H. : Chapman and Hall
C.U.P. : Cambridge University Press
H.M.S.O. : His Majesty's Stationery Office
L.G. : Longmans, Green
McG.-H. : McGraw-Hill
O. & B. : Oliver and Boyd
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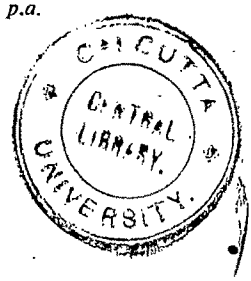

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PREFACE

THE main object of this monthly list is to provide libraries with a list of selected recent scientific and technical books. The selection has been made by those with special knowledge of the subjects. It is not claimed that the list is exhaustive and it is hoped that the range of subjects will gradually be extended.

The aim of the Publications Committee has been to secure the help of individuals and specialist organizations who are, for their own purposes, making as complete a survey as possible of the literature in their own fields and who are able to assess the relative merits of new publications. This object has already been largely achieved : over seventy specialist organizations are generously helping Aslib in this way.

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(*C*) Books of an advanced or specially technical character.

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SCIENTIFIC RESEARCH

P. Lenard. Great men of science; a history of scientific progress. Transl. from 2nd German ed. by Dr. H. S. Hatfield, with a preface by E. N. da C. Andrade. *G. Bell. 1950. pp.xix.389, ports. 15s.* *(A) 636*

BIBLIOGRAPHY

F. A. Buttress, *comp.* Agricultural periodicals of the British Isles, 1681–1900, and their location. *Cambridge: Univ. of Cambridge, School of Agriculture. 1950. pp.16. 2s.* *(D) 637*

LIBRARIANSHIP

American Society for Metals and the Special Libraries Association. ASM–SLA Metallurgical literature classification. Prep. by a Joint Comm. of the American Society for Metals and the Special Libraries Association. *Cleveland: American Society for Metals. 1950. pp.3–49, diagrs., illus., tables. $1.00.* *(C) 638*

R. L. Collison. Information services; their organization and administration. Foreword by L. R. McColvin. *James Clarke & Co., Ltd., 5 Wardrobe Place, Carter Lane, E.C.4. 1950. pp.vi.80, diagrs., illus. 6s.* *(B) 639*

S. R. Ranganathan. Library development plan: thirty-year programme for India, with draft library bills for the Union and the constituent States. *Delhi: Univ. of Delhi Press; London: G. Blunt & Sons. pp.462. (Delhi Univ. publications, Library science series 2.) Rs.15 or 30s.* *(C) 640*

Special Libraries Association. A brief for corporation libraries: a guide for their operation and management. Ed. by Alma Clarvoe Mitchell. *New York: The Association, 31 East 10th St., N.Y.3. 1950. pp.4–59. $1.75.* *(B) 641*

PHILOSOPHY

A. J. Jones. For a human advance. *Nelson. 1949. pp.vii.197. 12s. 6d.* 'This is yet another attempt to diagnose the effects of, and suggest a cure for, the failure of mankind's moral and mental development to keep up with scientific discoveries.' *(A) 642*

G. R. G. Mure. A study of Hegel's logic. *Oxford: Clarendon Press. 1950. pp.x.375, tables. 30s.* *(C) 643*

K. Walker. Meaning and purpose: an analysis of the main scientific theories of the last hundred years and their impact upon religious thought and belief. *Harmondsworth, Middlesex: Penguin Books. 1950. pp.203, bibliog. (Pelican books A211.) 1s. 6d.* *(A) 644*

PSYCHOLOGY

A. Chapanis, W. R. Garner and C. T. Morgan. Applied experimental psychology: human factors in engineering design. *New York: Wiley; London: C. & H. 1949. pp.xi.434. (Wiley publications on psychology.) $4.50 or 36s.* *(B) 645*

C. Spearman and Ll. Wynn Jones. Human ability: a continuation of 'The Abilities of Man.' *Macmillan. 1950. pp.viii.198. 16s.* *(C) 646*

ECONOMICS

[See *708*]

MATHEMATICS

B. B. Baker and E. T. Copson. The mathematical theory of Huygens' principle. 2nd ed. *Oxford: Clarendon Press. 1950. pp.vii.192, diagrs. 21s.* 'In this edition a chapter is added on integral solution of the diffraction by a plane screen. The chapters of the 1939 edition are virtually unaltered except for the correction of misprints and the addition of references to later work.' *(C) 647*

L. Hogben. Chance and choice by cardpack and chessboard: an introduction to probability in practice by visual aids. Vol. 1. Charts drawn by Gladys Haines from designs by the author. *Parrish. 1950. pp.417, charts, tables. 50s.* *(B) 648*

D. E. Littlewood. The skeleton key of mathematics: a simple account of complex algebraic theories. *Hutchinson. 1949. pp.138. 7s. 6d.* *(B) 649*

ASTRONOMY

G. J. Whitrow. The structure of the universe: an introduction to cosmology. *Hutchinson. 1949. pp.171. 7s. 6d.* *(B) 650*

PHYSICS

E. N. da C. Andrade. Isaac Newton. *Max Parrish. 1950. pp.111, diagrs., illus., facs., pls. 6s.* *(A) 651*

E. F. Carter. Physics for everyone: 1,001 physics questions and answers. *Burke Publishing Co. 1950. pp.223. 10s. 6d.* 'This is a book for the layman who is interested in knowing the elementary scientific reasons for the occurrence of everyday observed phenomena.' *(A) 652*

B. Chance and others, *eds.* Electronic time measurements [Prepared under the supervision of] Office of Scientific Research and Development, National Defense Research Committee. *McG.-H. 1949. pp.xxviii.538, illus. (Mass. Inst. Tech. Radiation Laboratory. Radiation lab. ser., vol. 20.) $7.00 or 42s.* *(C) 653*

V. E. Cosslett. Introduction to electron optics: the production, propagation and focusing of electron beams. 2nd ed. *Oxford: Clarendon Press. 1950. pp.xvi.293, pls., diagrs. 27s. 6d.* 'New material is included in the form of notes.' *(B) 654*

J. L. Cramer and R. E. Peierls, *eds.* Atomic energy. *Harmondsworth, Middlesex: Penguin Books. 1950. pp.200, diagrs., illus. (Pelican books A224.) 1s. 6d. (A) 655*

M. Nelkon. Light and sound. *Heinemann. 1950. pp.viii.342; illus., pls., diagrs. 11s. 6d. (B) 656*

GEOPHYSICS

L. D. Leet. Earth waves. *Cambridge, Mass.: Harvard Univ. Press; New York: Wiley; London: C. & H. 1950. pp.122. (Harvard monographs in applied science, No. 2.) $3.00 or 24s. (C) 657*

CHEMISTRY

Association of British Chemical Manufacturers. Conference on chemical works safety, Harrogate, 29–31 October, 1948. Proceedings. *The Association, 166 Piccadilly, W.1. 1950. pp.132, tables. 5s. (C) 658*

Association of British Chemical Manufacturers. Second conference on chemical works safety, Scarborough, 7–9 October, 1949. Proceedings. *The Association, 166 Piccadilly, W.1. 1950. pp.111, pls., tables. 5s. (C) 659*

Chemical Society and Atomic Energy Research Establishment. Papers read at a symposium on 'The Chemistry of the Heavy Elements' at Oxford, 28–30 March, 1949, and at a discussion of 'The Use of Radioactive Tracers in Chemistry' in London, 1 April, 1949. Journal of the Chemical Society, Suppl. Issue, No. 2, 1949, pp.S235–S420. *The Society, Burlington House, W.1. 12s. (free to 1949 subscribers to the Journal). (C) 660*

[See also *691*]

METEOROLOGY

R. Inwards, *comp.* Weather lore: the unique bedside book, taken from the world's literature and the age-old wisdom of farmers, mariners, bird watchers . . . concerning flowers, plants, trees, butterflies, birds, animals, fish, tides, clouds, stars, rainbows, mock suns, mock moons, haloes. 4th ed. rev. and amplified for the Royal Meteorological Society by E. L. Hawke. *Rider, for the Society. 1950. pp.viii.9–251, pls., bibliog. 15s.* 'Does not differ very widely in form from the 3rd ed. (1898). Items of dubious accuracy have been eliminated and fresh material added.' *(A) 661*

BIOLOGY

W. Branfield. Continuous creation: a biological concept of the nature of matter. Intro. by Prof. F. W. Jones. *Routledge & Kegan Paul. 1950. pp.119, pls., tables., diagrs. 8s. 6d. (A) 662*

[See also *670, 671*]

BOTANY

F. N. Howes. Vegetable gums and resins. *Waltham, Mass.: Chronica Botanica; London: William Dawson and Sons. 1949. pp.xxii.188. (New series of plant science books, vol. 20.)* $5.00 *or 40s.* *(C) 663*

ZOOLOGY

L. Berner. The mayflies of Florida. *Gainesville, Fla.: Univ. Fla. Press. 1950. pp.xii.267, pls., maps, figs. (Uni. Fla. Stud. biol. sci. ser. 4, No. 4.)* $5.50 *(unbound).* *(C) 664*

N. J. Berrill. The Tunicata, with an account of the British species. *Ray Society.* [*Sold by Quaritch.*] *1950. pp.iii.354, illus., maps, diagrs., bibliog. 27s. 6d.* *(B) 665*

T. A. Coward. The birds of the British Isles and their eggs. 1st series. Comprising the families Corvidae to Phoenicopteridae. 7th ed. rev. by A. W. Boyd. Illus. by Archibald Thorburn and Richard Kearton and others. *F. Warne & Co. 1950. pp.400, 252 illus. (col.), 73 illus. (photo.). 17s. 6d.* 'First published 1920.' *(B) 666*

T. A. Coward. The birds of the British Isles and their eggs. 2nd series. Comprising the families Anatidae to Phasianidae. 8th ed. rev. by A. W. Boyd. Illus. by Archibald Thorburn, E. L. Turner, Richard Kearton and others. *F. Warne & Co. 1950. pp.384, 203 illus. (col.), 66 illus. (photo.). 17s. 6d.* 'First published 1920.' *(B) 667*

T. A. Coward. The birds of the British Isles and their eggs. 3rd series. Comprising their migration and habits and observations on our rarer visitants. 4th ed. rev. by A. W. Boyd. Illus. by Archibald Thorburn and others. *F. Warne & Co. 1950. pp.286, 68 illus. (col.), 68 illus. (photo.). 17s. 6d.* 'First published 1926.' *(B) 668*

G. H. Edgell. The bee hunter. *Cambridge, Mass.: Harvard Univ. Press; London: Geoffrey Cumberlege. 1949. pp.49, pls.* $2.50 *or 20s.* *(A) 669*

L. E. Richdale. The pre-egg stage in Buller's mollyhawk. *Dunedin: Otago Daily Times. 1949. pp.50, illus. (Biological monographs, No. 1.) 10s. (C) 670*

L. E. Richdale. A study of a group of penguins of known age. *Dunedin: Otago Daily Times. 1949. pp.88, illus. (Biological monographs, No. 2.) 12s. 6d.* *(C) 671*

H. K. Airy Shaw. Directory of natural history societies. First supplement. Gen. ed. Beowulf A. Cooper. *The Amateur Entomologists' Society, 1 West Ham Lane, E.15. 1949. pp.44. (AES pamphlet No. 7a.) 2s.* *(D) 672*

ENGINEERING

[See *645*]

Civil

R. R. Minikin. Winds, waves and maritime structures: studies in harbour making and in the protection of coasts. *Griffin. 1950. pp.216, pl., plans, tables, diagrs. 25s.* *(C) 673*

R. W. Steed. An introduction to distribution methods of structural analysis. *Pitman. pp.123, diagrs., tables. 12s. 6d.* (*C*) *674*

Electrical Communications

R. W. Hallows. Wireless simply explained. *C. & H. 1949. pp.xii.255, diagrs. 10s. 6d.* (*A*) *675*

E. J. G. Lewis. Radio servicing equipment. *C. & H. 1950. pp.xi.371, diagrs. illus., tables. 25s.* (*B*) *676*

Marine

H. Edstrand. Cavitation tests with model propellers in natural sea water with regard to the gas content of the water and its effect upon cavitation point and propeller characteristics. *Gothenburg: Gumperts A.B. 1950. pp.81 (Publication No. 15, Swedish State shipbuilding tank.) Kr. 7.* (*C*) *677*

***Sir* Alan Grant.** Steel and ships—the story of John Brown's. *Michael Joseph. 1950. pp.97. 15s.* (*A*) *678*

Mechanical

R. H. Clark. Steam-engine builders of Suffolk, Essex and Cambridgeshire. *Norwich: The Augustine Steward Press. 1950. pp.141. 6s. 6d.* 'An historical work, of particular interest as regards portable engines.' (*A*) *679*

G. S. Ranshaw. Great engines and their inventors: the story of machine power. *Burke Publishing Co. 1950. pp.212, pls., tables, diagrs. 10s. 6d.* (*A*) *680*

Reissner anniversary volume; contributions to applied mechanics. Ed. by the staff of the Department of Aeronautical Engineering and Applied Mechanics of the Polytechnic Institute of Brooklyn. *Ann Arbor, Mich.: J. W. Edwards. 1949. pp.viii.493, illus. $6.50.* (*C*) *681*

R. E. Smith. Machining of metal. Rev. ed. *Bloomington, Ill.: McKnight. 1949. pp.6–224, illus. $3.50.* (*C*) *682*

F. A. Stanley. Punches and dies; layout, construction and use. 4th rev. ed. *McG.-H. 1950. pp.xiii.583, illus. $4.50 or 40s. 6d.* 'Containing new matter on dies with inserts of cemented carbide, press tools for stainless steel piercing and blanking, the manufacture of steel cartridge cases, etc., this edition is now rearranged in sections which deal with the principal types of dies and press tools.' (*C*) *683*

E. T. Vincent. Theory and design of gas turbines and jet engines. *McG.-H. pp.ix.606, illus., tables, diagrs., bibliog. 64s.* (*C*) *684*

Road

R. G. Batson. Roads: their alignment, layout and construction. *L.G. 1950. pp.viii.224, illus., pls., maps, plans. (Civil engineering series.) 21s.* (*B*) *685*

S. Champion. The technical aspect of the design of roads: a survey of current methods of approach to the design of roads and runways for engineers and students. With a foreword by Herbert Hamer. *Technical Press. 1950. pp.xii.232, pls., tables, diagrs., bibliogr. 30s.* (*C*) *686*

AGRICULTURE

[See *637*]

HORTICULTURE

C. A. Oldham. Vegetable-growers' guide. *C. Lockwood. 1950. pp.472. 25s.* *(A) 687*

TRANSPORT

F. W. Gill and G. L. Bates. Airline competition: a study of the effects of competition on the quality and price of airline service and the self-sufficiency of the United States domestic airlines. *Boston: Harvard Univ. Press. 1949. pp.xv.704, maps. (Harvard Univ. Graduate School of Business and Administration. Publications.)* *$5.75.* *(B) 688*

A. C. Hardy, *ed.* The wonderful story of the sea. *Odhams Press. 1950. pp.384, illus. 12s. 6d.* 'Contains accounts of the various aspects of life at sea, ports, shipping, etc.' *(A) 689*

INDUSTRIAL ORGANIZATION

J. A. Scott. Measurement of industrial efficiency. *Pitman. 1950. pp.158. 15s.* *(B) 690*

[See also *658, 659*]

FOOD TECHNOLOGY

E. R. Bolton and C. Revis. Oils, fats and fatty foods. 3rd ed. rev. by K. A. Williams. *Churchill. 1950. pp.xii.500, pls., diagrs., tables. 63s.* 'Has been brought up to date and extended. In particular, new methods of analysis have been included and the sections dealing with milk products and vitamins have been amplified.' *(C) 691*

N. Deer. The history of sugar. Vol. 2. *C. & H. 1950. pp.xiv.259–636, pls., diagrs., tables. 55s.* *(C) 692*

A. Lock. Practical canning. *Food Trade Press, 7 Garrick St., W.C.2. 1949. pp.246. 40s.* *(C) 693*

METALLURGY

American Society for Metals. Thermodynamics in physical metallurgy. *Cleveland, 3, Ohio: The Society, 7301 Euclid Ave. 1950. pp.319, diagrs., tables, bibliogr.* *$5.00 ($4.00 to members of The Society).* *(C) 694*

British non-ferrous metals directory, 1949. *Metal Information Bureau, Ltd., Princes House, 39 Jermyn St., W.1. 1950. pp.261. 10s.* *(D) 695*

***Metal Bulletin*'s British iron and steel directory, 1949.** *Metal Information Bureau, Princes House, 39 Jermyn St., W.1 1950. pp.245. 10s.* *(D) 696*

N. E. Woldman. Materials engineering of metal products. *New York: Reinhold; London: C. & H. 1949. pp.v.581, illus. $10.00 or 80s.* *(C) 697*

[See also *638, 681*]

MANUFACTURES

PAPER

S. E. Sorrell. Paper-base laminates. *Cleaver-Hume. 1950. pp.223, illus., pls., tables, diagrs. (Cleaver-Hume books on plastics series.) 12s. 6d.* *(B) 698*

PLASTICS

[See *698*]

TEXTILES

A. J. Hall. Standard handbook of textiles. 3rd ed. *National Trade Press, Drury House, Russell St., Drury Lane, W.C.2. 1950. pp.326, diagrs., illus. 21s.* 'Information on new fibres and processes, including diagrams, have been added.' *(B) 699*

HOROLOGY

E. L. Edwardes. The grandfather clock: an archaeological and descriptive essay on the long-case clock. *Altrincham, Cheshire: John Sherratt & Son, Park Rd., Timperley. 1949. pp.165, illus. 15s.* *(A) 700*

BUILDING

G. J. Hancock. Asphalte in modern building construction. Ed. by A. A. Chant and F. E. Drury. *Newnes. 1950. pp.230, illus., diagrs., tables. 30s.* *(B) 701*

P. O. Reece. The design of timber structures. *Spon. 1950. pp.235, diagrs., tables. (Architectural and building series, ed. by A. M. Chitty.) 16s.* *(B) 702*

ARCHITECTURE

R. Birt. The glories of Ely cathedral. Phots. by A. W. Kerr. *Winchester Publications. 1949. pp.v.114, pls., illus. 21s.* *(B) 703*

Country Life, Ltd. Castles from the air [In England and Wales. Phots.]. Intro. and notes by S. Douglas Simpson. *Country Life, Ltd. 1949. pp.16, 112 pls. 30s.* *(B) 704*

J. H. Harvey. An introduction to Tudor architecture. *Art and Technics, Ltd., 58 Frith St., W.1. 1949. pp.96, illus. (Introductions to architecture series.) 10s. 6d.* *(B) 705*

PHOTOGRAPHY

D. Charles. Brighter photography for beginners. 4th ed. *Iliffe, for 'Amateur Photographer.' 1950. pp.174, pls., diagrs. 6s.* 'The book has been entirely re-written and the illustrations have undergone complete revision.' *(A) 706*

G. Gilbert. Photo-flash in practice. 3rd ed. *Focal Press. 1950. pp.279, illus., pls., tables, diagrs. 13s. 6d.* *(B) 707*

BIOGRAPHY

[See *636, 651, 650*]

GEOGRAPHY

T. W. Freeman. Ireland; its physical, historical and economic geography. *Methuen. 1950. pp.xv.555, pls., maps, tables, diagrs. 32s.* *(B) 708*

J. M. Mogey. The study of geography. *O.U.P. 1950. pp.164, diagrs.* (*Home university library.*) *5s.* *(A) 709*

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Historical Association. The early history of science : a short handlist. Intro. by J. Lindsay. *G. Philip & Son, Ltd., 32 Fleet St., E.C.4, for the Association. 1950. pp.63. (Helps for students of history, No. 52.) 2s. 6d. (1s. 3d. to members of the Association).* *(B) 710*

M. Planck. Scientific autobiography and other papers ; with a memorial address on Max Planck by Max von Laue. Transl. from the German by F. Gaynor. *Williams & Norgate. 1950. pp.192. 8s. 6d.* *(B) 711*

A. Raistrick. Quakers in science and industry ; being an account of the Quaker contributions to science and industry during the 17th and 18th centuries. *Bannisdale Press. 1950. pp.361, pls., tables, diagrs. 21s.* *(A) 712*

[See also *725*]

SCIENTIFIC RESEARCH

Manchester Joint Research Council. Operational research ; its application to peace-time industry. Preface by *Sir* Raymond Streat. Intro. by Prof. P. M. S. Blackett. *Manchester : The Council, Chamber of Commerce, Ship Canal House, King St. 1950. pp. 151, illus., pls., tables. 10s. 6d.* *(C) 713*

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[See *710*]

DOCUMENTATION

G. Meiners. Indexing and filing system for engineering drawings showing details of sub-station design. *Leatherhead : British Electrical and Allied Industries Research Association. 1950. pp.17, tables, mimeographed. (B.E.A.I.R.A. technical reports series No. G/T240.) 6s.* *(B) 714*

PHILOSOPHY

Abu Bakr Muhammad ibn Zakariya al-Razi. The ' Spiritual physick ' of Rhazes. Transl. from the Arabic by Arthur J. Arberry. *John Murray. 1950. pp. 110. (Wisdom of the East series.)* *(A) 715*

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[See also *711, 725, 779*]

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[See *734*]

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[See also *719, 764, 767*]

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G. M. Dyson. A manual of organic chemistry for advanced students. Vol. 1 The compounds of carbon, hydrogen, oxygen and the halogens. *L.G. 1950 pp.xiii,984, tables. 63s.* 'The first volume of a projected work in three volumes.' *(C) 727*

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[See also *760, 761*]

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[See also *736, 754*]

BOTANY

[See *732, 754*]

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[See also *774*]

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J. Thomson. Radio communication at ultra high frequency. *Methuen. 1950. pp.xix,203, pls., diagrs., bibliog. 21s.* *(C) 742*

J. R. Whitehead. Super-regenerative receivers. *C.U.P. 1950. pp.xiii,169, diagrs., illus., tables, bibliog. (Modern radio technique, a new series, ed. by J. A. Ratcliffe.) 15s.* *(C) 743*

Mechanical

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[See also *723, 753*]

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MINING

[See 770]

AGRICULTURE

DAIRY SCIENCE

J. G. Davis. A dictionary of dairying. *Leonard Hill. 1950. pp.xx,766, pls., illus. 37s. 6d.* (*D*) *747*

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[See also 751, 769]

HORTICULTURE

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[See also *712, 737*]

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[See also *723*]

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TOWN AND COUNTRY PLANNING

J. L. Beddall. Hedges for farm and garden. *Faber. 1950. pp.360, pls., illus. 25s.* *(B) 776*

W. Holford and H. M. Wright. Cambridge planning proposals: a report to the Town and Country Planning Committee of the Cambridgeshire County Council. *C.U.P. 1950. 2 vols. front., pls., maps, plans, tables.* [*Vol. 1: Text. Vol. 2: Maps and drawings (spiral binding).*] *30s.* *(B) 777*

ARCHITECTURE

M. Hendry. Planning your home for to-morrow. *Faber. 1950. pp.220, illus., 18s.* *(A) 778*

J. Hudnut. Architecture and the spirit of man. *Cambridge, Mass. : Harvard Univ. Press ; London : O.U.P. 1950. pp.vi,303. $4.50 or 36s.* *(B) 779*

W. R. Lethaby. Medieval art. 3rd ed. by D. Talbot Rice. *Nelson. 1950. pp.xiv,223, pls., illus. 30s.* *(B) 780*

B. Zevi. Towards an organic architecture. *Faber. 1950. pp.180, pls., illus. 25s.* *(B) 781*

BIOGRAPHY

[See *711*, *712*]

Errata : Volume 15, Number 8.

Item 570. *P.* W. Bridgman *not T.* W. Bridgman.

Item 598. J. L. Nayler *not* J. L. Naylor.

Item 607. F. B. Michell *not* F. B. Mitchell.

Volume 15, Number 9.

Item 687. C. *H.* Oldham *not* C. *A.* Oldham.

Item 702. Correct title is 'An introduction to the design of timber structures' published 1949 *not* 1950.

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H.M.S.O. : His Majesty's Stationery Office
L.G. : Longmans, Green
McG.-H. : McGraw-Hill
O. & B. : Oliver and Boyd
O.U.P. : Oxford University Press

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PREFACE

THE main object of this monthly list is to provide libraries with a list of selected recent scientific and technical books. The selection has been made by those with special knowledge of the subjects. It is not claimed that the list is exhaustive and it is hoped that the range of subjects will gradually be extended.

The aim of the Publications Committee has been to secure the help of individuals and specialist organizations who are, for their own purposes, making as complete a survey as possible of the literature in their own fields and who are able to assess the relative merits of new publications. This object has already been largely achieved : over seventy specialist organizations are generously helping Aslib in this way.

The notes in inverted commas are quoted from reviews or from the recommending experts ; those in square brackets are amplifications of the title compiled in the Aslib office from information supplied by the publishers.

Only books in the English language and, with few exceptions, those published within the previous six months, have been included. The limitation with regard to date, however, has been stretched sometimes in the case of books published abroad or those on very specialized subjects.

The place of publication is London unless otherwise stated.

The regular transactions of societies are not included.

The works recommended are set out for convenience under broad main headings following the order of the Universal Decimal Classification and are further classified by the following symbols :

(*A*) Books suitable for general readers, or books treating the subject in an introductory, elementary or general manner.

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A title-page, classified table of contents, and index are issued with the last number of each volume.

ASLIB BOOK-LIST

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SCIENCE IN GENERAL

[See *786*]

SCIENTIFIC RESEARCH

A. J. Ansley. An introduction to laboratory technique. 2nd ed. With a foreword by F. H. Newman. *Macmillan. 1950. pp.xv.288, illus., diagrs., tables. 16s.* 'This edition has been brought up to date by the incorporation of additional material, principally in the chapters on glass-blowing and optical projection.' *(B) 782*

Royal Society. General notes on the preparation of scientific papers. *C.U.P. for the Society. 1950. pp.vi,26, figs. 2s. 6d.* *(B) 783*

[See also *827*]

DOCUMENTATION

W. A. Bagley. Facts and how to find them: a guide to sources of information and to the method of systematic research. 4th ed. rev. and enl. *Pitman. 1950. pp.136. 8s. 6d.* *(A) 784*

Great Britain. Department of Scientific and Industrial Research. D.S.I.R. consolidated list of translations, 1940–1949. *The Department, Intelligence (Records), 5–11 Regent St., S.W.1. 1950. pp.i,78, mimeographed. Gratis.* *(D) 785*

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R. R. Hawkins, *ed.* Scientific, medical and technical books published in the United States of America: a selected list of titles in print with annotations. Supplement of books published 1945–1948. Prepared under the direction of the National Research Council's Committee on Bibliography of American Scientific and Technical Books, Washington. *New York: Bowker. 1950. pp.xi,514. $10.00.* *(D) 786*

LIBRARIANSHIP

R. L. Collison. The cataloguing, arrangement and filing of special material in special libraries. With a foreword by Dr. R. S. Schultze. *Aslib. 1950. pp.76, illus., pls., tables, diagrs. (Aslib manuals, vol. 2.) 9s. 6d. (7s. 6d. to members).* *(B) 787*

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J. A. V. Butler. Man is a microcosm. *Macmillan. 1950. pp.xii,152, illus., pls. 10s. 6d.* (*A*) *788*

C. E. M. Joad. A critique of logical positivism. *Gollancz. 1950. pp.154. 10s. 6d.* (*A*) *789*

C. A. Richardson. Knowledge, reality and life. *Harrap. 1950. pp.349. 15s.* (*B*) *790*

PSYCHOLOGY

[See *798*]

SOCIAL SCIENCES

National Institute of Economic and Social Research. Register of research in the social sciences in progress and in plan. No. 7, 1949–50, with a directory of research institutions. Ed. by Feodora Stone. *C.U.P. 1950. pp.174. 15s.* (*D*) *791*

SCIENTIFIC CRIMINOLOGY

N. Morland. An outline of scientific criminology. *Cassell. 1950. pp.288, pls., facs., tables, bibliog. 12s. 6d.* (*A*) *792*

DICTIONARIES

[See *848*]

MATHEMATICS

W. Abbott. The theory and practice of perspective. *Blackie. 1950. pp.vii,198, illus. 12s. 6d.* (*C*) *793*

H. G. Forder. Geometry. *Hutchinson. 1950. pp.200. (Hutchinson's university library series.) 7s. 6d.* (*B*) *794*

G. U. Yule and M. G. Kendall. An introduction to the theory of statistics. 14th ed. *Griffin. 1950. pp.xxiv,701. 34s.* (*B*) *795*

ASTRONOMY

W. H. McCrea. Physics of the sun and stars. *Hutchinson. 1950. pp.192. (Hutchinson's university library series.) 7s. 6d.* (*B*) *796*

PHYSICS

H. W. Heckstall-Smith. Intermediate electrical theory. Rev. [2nd] ed. *Dent. 1950. pp.xiv,673, illus., pls., tables, diagrs., bibliog.* (*Dent's modern science series.*) *14s. 6d.* 'A new part III (160 pp.) replaces the brief suggestions for further reading in part II and provides a background of the outstanding developments and personalities in modern physics.' (*B*) *797*

G. W. Scott Blair. Measurements of mind and matter. *Dennis Dobson. 1950. pp.115, diagrs., bibliog. 9s. 6d.* 'An elementary discussion of problems arising on the border-line between physics and psychology.' (*A*) *798*

T. G. Cowling. Molecules in motion. *Hutchinson. 1950. pp.183, diagrs., bibliog.* (*Hutchinson's university library series, No. 44.*) *7s. 6d.* 'Sets out to describe in relatively simple terms the kinetic theory of gases and to show that "gas theory has been fruitful far outside its own proper boundaries".' (*B*) *799*

[See also *800, 821*]

CHEMISTRY

J. R. Partington. Thermodynamics: a modern introduction to general thermodynamics and its applications to chemistry and physics. 4th ed. rev. and enl. *Constable. 1950. pp.ix,263, tables, diagrs. 22s. 6d.* 'Has been revised and greatly enlarged.' (*C*) *800*

BIOLOGY

C. Darwin. On the origin of the species by means of natural selection, or the preservation of favoured races in the struggle for life. [A reprint of the 1st ed.] With a foreword by Dr. C. D. Darlington. *Watts. 1950. pp.xx,426, pl. 15s.* (*C*) *801*

[See also *788, 833*]

ANTHROPOLOGY

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BACTERIOLOGY

K. A. Bisset. The cytology and life-history of bacteria. *Edinburgh: E. & S. Livingston. 1950. pp.136, illus., bibliog. 18s. 6d.* (*C*) *803*

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[See also *829*]

ZOOLOGY

F. C. Craighead and others. Insect enemies of eastern forests. *Washington, D.C.: U.S. Department of Agriculture. 1950. pp.ii,679, 197 figs. (Misc. publ. U.S. Dept. Agric. No. 657.) $2.00.* *(B) 810*

J. Crompton. The spider. *Collins. 1950. pp.254, 24 figs. 10s. 6d.* *(A) 811*

I. Harman. Collecting butterflies and moths. *Williams and Norgate. 1950. pp.128, pls., illus. 7s. 6d.* *(A) 812*

T. Iredale. Birds of paradise and bower birds: with coloured illustrations of every species by Lilian Medland. *Melbourne: Georgian House Pty., Ltd. 1950. pp.xii,239, 33 col. pls., bibliog. £5 5s.* *(C) 813*

O. G. Pike. Wild animals in Britain: mammals, reptiles and amphibians. *Macmillan. 1950. pp.xii,231, 8 col. pls., figs. 18s.* *(A) 814*

PUBLIC HEALTH

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ENGINEERING

H. B. Brown and A. J. Bryant. Engineering science. Vol. 3. *Macmillan. 1950. pp.viii,532, illus. 10s.* (*C*) *816*

I. C. Crawford. Legal phases of engineering: contracts and specifications. *Macmillan. 1950. pp.xiii,346. $3.75 or 28s. 6d.* (*D*) *817*

H. O. Parrack. Contractors' plant: its organization, operation and maintenance. *Pitman. 1950. pp.271. 25s.* (*C*) *818*

Automobile

H. G. Castle. Britain's motor industry. *Clerke & Cockeran, Ltd., 72 Fleet St., E.C.4. 1950. pp.328, illus. 21s.* (*A*) *819*

S. F. Page. Body engineering: design and construction of motor vehicle body-work. With a foreword by W. E. Walters. *C. & H. 1950. pp.188, illus., pls., tables, diagrs. 24s.* (*B*) *820*

Civil

[See *821*, *849*]

Electrical

W. P. Creager and J. D. Justin. Hydro-electric handbook: with the assistance of contributors. 2nd ed. *New York: Wiley; London: C. & H. 1950. pp.xxxii,1151, illus., maps. $12.50 or £5.* (*C*) *821*

E. Hughes. Applied electricity. *L.G. 1950. pp.412. 10s. 6d.* (*B*) *822*

Electrical Communications

J. H. Reyner. Testing radio sets. 5th ed. *C. & H. 1950. pp.viii,215, pls., tables, diagrs. 22s. 6d.* 'Virtually unchanged from previous edition.' (*B*) *823*

Mechanical

American Society for Metals. Mechanical wear: being the proceedings of a summer conference on this subject held in June 1948 at the Massachusetts Institute of Technology, Cambridge, Mass., U.S.A. Ed. by John T. Burwell. *Cleveland, Ohio, 3: The Society, 7301 Euclid Ave. 1950. pp.387, illus. $6.50 or 53s.* (*C*) *824*

J. E. York. Methods of joining pipe: standards and special joints for different classes of pipes and pipe materials. *New York, 13: Industrial Press, 148 Lafayette St. 1949. pp.236, illus. $3.00 or 21s.* (*C*) *825*

[See also *821*]

Water Supply

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AGRICULTURE.

Commonwealth Agricultural Bureaux. List of research workers: agriculture and forestry in the British Commonwealth, 1950 (including the list of such workers in the Republic of Ireland). *Penglais, Aberystwyth: Commonwealth Agricultural Bureaux. 1950. pp.422. 10s. 6d.* (*D*) *827*

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[See also *807, 847*]

FORESTRY

[See 810]

HORTICULTURE

F. C. Atkins. Mushroom-growing today. *Faber. 1950. pp.187, illus. 12s. 6d.* (*B*) *829*

W. F. Bewley. Commercial glasshouse crops. *Country Life. 1950. pp.xii,509, illus. 50s.* (*B*) *830*

W. P. Duruz. Principles of nursery management. *New York: A. T. de la Mare Co., Inc. 1950. pp.125, illus. $3.50.* (*B*) *831*

G. Eley, *ed.* In your garden: a selection of broadcast talks [by different authorities]. *Worcester: Littlebury & Co. Ltd. 1950. pp.113, illus. 10s. 6d.* (*A*) *832*

PLANT-BREEDING

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TRANSPORT

C. Hadfield. British canals: an illustrated history. *Phoenix. 1950. pp.259, illus. 16s.* (*A*) *834*

L. T. C. Rolt. Inland waterways of England. *1950. A. & U. 1950. pp.221, illus. 21s.* (*A*) *835*

***Sir* A. Tripp.** Road traffic and its control. 2nd ed. *Arnold. 1950. pp.416, illus. 40s.* (*A*) *836*

INDUSTRIAL ORGANIZATION

J. Armstrong. Incentive and quality. *C. & H. 1950. pp.x,113, charts, tables. 18s.* (*C*) *837*

G. S. Mason. Modern works management. 2nd ed. *Pitman. 1950. pp.209. 15s.* 'There is some revision in this edition.' (*C*) *838*

[See also *819*]

METALLURGY

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A. Dickason. The calculation of sheet metal work for students and craftsmen. *Pitman. 1950. pp.250. 15s.* (*C*) *840*

E. R. Roberts. The extraction of non-ferrous metals. *Temple Press. 1950. pp.viii,181, tables. 16s.* 'This book is based primarily on a short course of lectures given to pre-intermediate students at the Royal College of Science.' (*B*) *841*

[See also *824, 825*]

FUEL TECHNOLOGY

K. Steiner. Oil burners. 2nd ed. rev. *McG.-H. 1950. pp.xx, 502, illus. $6.50 or 55s. 6d.* (*B*) *842*

MANUFACTURES

Plastics

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Textiles

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[See also *840*]

BUILDING

T. H. Bray. A course of reinforced concrete design. 2nd ed. rev. *C. & H. 1950. pp.viii,220, charts, graphs, illus., diagrs., tables. 30s.* 'Virtually unchanged from previous edition.' (*B*) *845*

Laxton's builders' price book. *Ed. by* P. T. Walters. 124th ed. *Kelly's Directories. 1950. pp.821. 30s.* 'Previous ed. *c.* 1940.' (*D*) *846*

[See also *825, 848*]

ARCHITECTURE

H. J. Barre and L. L. Sammet. Farm structures. *New York: Wiley; London: C. & H. 1950. pp.xi,650, illus. $7.00 or 55s.* (*B*) *847*

Arthur E. Burke and others. Architectural and building trades dictionary, by Arthur E. Burke, J. Ralph Dalzell [and] Gilbert Townsend. Ed. by Pearl Jenison. *Chicago: American Technical Society; London: Technical Press. 1950. pp.*[*6*]*,377, front., illus., diagrs.* (*Building trade series.*) *$6.00 or 45s.* (*D*) *848*

E. Mock. The architecture of bridges. *New York: Museum of Modern Art. 1949. pp.127, pls., illus. $5.00.* (*B*) *849*

G. E. Kidder Smith. Switzerland builds: its native and modern architecture. *London: Architectural Press; New York and Stockholm: A. Bonnier. 1950. pp.234, pls., illus. 42s.* (*B*) *850*

A. Whittick. European architecture in the twentieth century. Vol. 1. [First quarter of century.] *C. Lockwood. 1950. pp. xx,249, front., pls. 30s.* (*B*) *851*

PHOTOGRAPHY

J. Bardsley. Making a start in photography. *C. & H. 1950. pp.viii.119, front., illus., diagrs. 9s. 6d.* (*A*) *852*

T. L. J. Bentley, *ed.* Manual of the miniature camera. 3rd ed. rev. *Newnes. 1950. pp.vii,256, illus., tables, diagrs. 12s. 6d.* 'In this edition many chapters have been enlarged or rewritten to cover the progress of the last seven years.' (*A*) *853*

W. F. Berg. Exposure: the fundamentals of camera technique. *Focal Press. 1950. pp.432, charts, diagrs., pls., tables. 31s.* (*C*) *854*

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H.M.S.O. : His Majesty's Stationery Office
L.G. : Longmans, Green
McG.-H. : McGraw-Hill
O. & B. : Oliver and Boyd
O.U.P. : Oxford University Press

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PREFACE

THE main object of this monthly list is to provide libraries with a list of selected recent scientific and technical books. The selection has been made by those with special knowledge of the subjects. It is not claimed that the list is exhaustive and it is hoped that the range of subjects will gradually be extended.

The aim of the Publications Committee has been to secure the help of individuals and specialist organizations who are, for their own purposes, making as complete a survey as possible of the literature in their own fields and who are able to assess the relative merits of new publications. This object has already been largely achieved : over seventy specialist organizations are generously helping Aslib in this way.

The notes in inverted commas are quoted from reviews or from the recommending experts ; those in square brackets are amplifications of the title compiled in the Aslib office from information supplied by the publishers.

Only books in the English language and, with few exceptions, those published within the previous six months, have been included. The limitation with regard to date, however, has been stretched sometimes in the case of books published abroad or those on very specialized subjects.

The place of publication is London unless otherwise stated.

The regular transactions of societies are not included.

The works recommended are set out for convenience under broad main headings following the order of the Universal Decimal Classification and are further classified by the following symbols :

(*A*) Books suitable for general readers, or books treating the subject in an introductory, elementary or general manner.

(*B*) Books of an intermediate degree of technicality or suitable as textbooks for students.

(*C*) Books of an advanced or specially technical character.

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A title-page, classified table of contents, and index are issued with the last number of each volume.

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SCIENCE IN GENERAL

G. Burniston Brown. Science, its method and its philosophy. *A. & U. 1950. pp.189, front., pls. (incl. ports.), diagr. 15s.* *(B) 855*

G. E. Quinton. Scientific and religious knowledge. *S.C.M. Press, 56 Bloomsbury St., W.C.1. 1950. pp.160, bibliog. 8s. 6d.* 'The author attempts to show that scientific knowledge is incomplete in itself.' *(A) 856*

BIBLIOGRAPHY

Iron and Steel Institute. Bibliography on the occurrence of nitrogen and hydrogen in liquid steel (covering the period 1888–1949). Prepared by the Library and Information Department of the Iron and Steel Institute. *The Institute, 4 Grosvenor Gardens, S.W.1. 1950. pp.[1]20, mimeographed. (Bibliographical series, No. 16.) 2s. 6d. (1s. 3d. to members).* *(D) 857*

Iron and Steel Institute. Bibliography on the physical chemistry of the electric steelmaking process (covering the period 1939–1949). Prepared by the Library and Information Department of the Iron and Steel Institute. *The Institute, 4 Grosvenor Gardens, S.W.1. 1950. pp.[1]21, mimeographed. (Bibliographical series, No. 17.) 2s. 6d. (1s. 3d. to members).* *(D) 858*

Iron and Steel Institute. Bibliography on the physical chemistry of the open-hearth process (covering the period 1940–1949). Prepared by the Library and Information Department of the Iron and Steel Institute. *The Institute, 4 Grosvenor Gardens, S.W.1. 1950. pp.[1]30, mimeographed. (Bibliographical series, No. 8B.) 2s. 6d. (1s. 3d. to members).* *(D) 859*

LIBRARIANSHIP

E. J. Reece. The task and training of librarians. *New York: King's Crown Press; London: O.U.P. 1949 [Reprinted 1950]. pp.91. $1.75 or 10s. 6d.* *(C) 860*

F. Rider. Compact book storage; some suggestions towards a new methodology for the shelving of less used research materials. *New York: Hadham Press. 1950. pp.90, front., diagrs. $2.60.* *(B) 861*

PHILOSOPHY

B. Bolzano. Paradoxes of the infinite. Transl. from the German of the posthumous edition by Dr. Fr. Prihonsky and furnished with a historical introduction by Donald A. Steele. *Routledge and Kegan Paul. 1950. pp.ix,189, bibliog. (Rare masterpieces of philosophy and science, ed. by Dr. W. Stark.) 21s.* *(C) 862*

S. E. Toulmin. An examination of the place of reason in ethics. *C.U.P. 1950. pp.xii,228. 16s.* *(C) 863*

PSYCHOLOGY

J. Piaget. The psychology of intelligence. Transl. from the French by Malcolm Piercy and D. E. Berlyne. *Routledge and Kegan Paul. 1950. pp.viii,182, bibliog. (International library of psychology, philosophy and scientific method series, ed. by C. K. Ogden.) 15s.* *(C) 864*

J. B. Rhine. New frontiers of the mind: a scientist's report on telepathy and psychic powers and phenomena. *Harmondsworth, Middlesex: Penguin Books. 1950. pp.220, 4 pls., bibliog. 1s. 6d.* *(A) 865*

ECONOMICS

[See *931*]

INTERNATIONAL ORGANIZATIONS

Union of International Associations. Yearbook of international organizations. 3rd issue. *Geneva: The Union, 109 rue de Lausanne. 1950. pp.902. 50s.* *(D) 866*

EDUCATION

J. Dawson, *comp.* Education Acts, 1944, 1946 and 1948. A detailed index. *School Government Publishing Co., Ltd., Cobham House, 24/26 Black Friars Lane, E.C.4. 1950. pp.46. 7s. 6d.* *(D) 867*

Directory of modern secondary schools, England and Wales, 1950, including junior secondary schools, Scotland, intermediate schools, Northern Ireland and local education authorities. *School Government Publishing Co., Ltd., Cobham House, 24/26 Black Friars Lane, E.C.4. 1950. pp.160. 8s. 6d.* *(D) 868*

H. M. Sinclair and A. H. T. Robb-Smith. A short history of anatomical teaching in Oxford. *Oxford: Bodleian Library. 1950. pp.81, pls. (incl. ports.), table, bibliog. 3s. 6d.* *(A) 869*

PHILOLOGY

G. Dewey. Relativ frequency of English speech sounds. *Cambridge, Mass.: Harvard Univ. Press; London: Pitman. 1950. rev. ed. pp.xii,187, charts, tables. 15s.* 'First published in 1923 this book is primarily of value to those interested in phonetic spelling.' *(C) 870*

MATHEMATICS

L. J. Comrie, *comp.* Chambers's shorter six-figure mathematical tables. *W. & R. Chambers. 1950. pp.xxvi,387. 12s. 6d.* (*D*) *871*

J. J. Stoker. Nonlinear vibrations in mechanical and electrical systems. *New York and London: Interscience. 1950. pp.xix,273. $5.00 or 40s.* (*C*) *872*

W. G. Welchman. An introduction to algebraic geometry. *C.U.P. 1950. pp.x,349, diagrs. 25s.* (*B*) *873*

[See also *862*]

ASTRONOMY

E. A. Beet. A guide to the sky: a practical handbook for beginners. 3rd ed. *C.U.P. pp.ix,95, front., illus., maps. 8s. 6d.* (*A*) *874*

W. Ley. Conquest of space. Paintings by Chesley Bonestell. *Sidgwick and Jackson. 1950. pp.160, 131 pls., 18 figs. 18s.* (*A*) *875*

PHYSICS

J. Duncan and S. G. Starling. A textbook of physics for students of science and engineering. Part IV, Sound. 2nd rev. ed. *Macmillan. 1950. pp.xi,635–740, diagrs., tables. 5s.* 'Has been revised completely.' (*B*) *876*

H. H. Hopkins. Wave theory of aberrations. *Oxford: Clarendon Press. 1950. pp.viii,169, diagrs., tables. (Monographs on the physics and chemistry of materials series, ed. by W. Jackson, H. Fröhlich, and N. F. Mott.) 15s.* (*C*) *877*

W. Wilson. A hundred years of physics. *Duckworth. 1950. pp.319, diagrs., bibliog. (Hundred years series.) 21s.* (*B*) *878*

CHEMISTRY

A. W. Johnson. The chemistry of the acetylenic compounds. Vol. 2: The acetylenic acids. *E. Arnold. 1950. pp.xxvii,328, tables, bibliog. 50s.* (*C*) *879*

P. Karrer. Organic chemistry. 4th English ed. rev. and enl. from the 11th German ed. by H. V. Simon and N. G. Bisset. *New York: Elsevier; London: Cleaver-Hume. 1950. pp.1000. $8.50 or 57s. 6d.* (*C*) *880*

W. A. Waters. Physical aspects of organic chemistry. 4th ed. rev. *Routledge and Kegan Paul. pp.xii,539, diagrs., tables. 35s.* 'Completely re-written.' (*C*) *881*

GEOLOGY

B. D. Richards. Flood estimation and control. With a foreword by W. J. E. Binnie. 2nd ed. rev. *C. & H. 1950. pp.xiii,173. 21s.* (*C*) *882*

ARCHAEOLOGY

G. E. Daniel. The prehistoric chamber tombs of England and Wales. *C.U.P. 1950. pp.xiv,256, 16 pls., 33 text figs. 31s. 6d.* *(C) 883*

METEOROLOGY

B. F. J. Schonland. The flight of thunderbolts. *Oxford: Clarendon Press. 1950. pp.[8]152, illus., pls., diagrs. 15s.* *(B) 884*

BIOCHEMISTRY

Biochemical Society. Biological oxidation of aromatic rings: a symposium held at the London School of Hygiene and Tropical Medicine on November 12, 1949, organized and edited by R. T. Williams. *C.U.P. 1950. pp.96, tables, bibliog. (Biochemical symposia, No. 5.) 8s.* *(C) 885*

J. N. Davidson. The biochemistry of the nucleic acids. *Methuen. 1950. pp.vi,163, pls., illus., bibliog. (Methuen's monographs on scientific subjects, gen. eds. R. A. Peters and F. G. Young.) 7s 6d.* *(C) 886*

[See also 890]

ANTHROPOLOGY

A. L. Banks. Man and his environment. *C.U.P. 1950. pp.16. 1s. 6d.* *(A) 887*

C. Kluckhohn. Mirror for man: the relation of anthropology to modern life. *Harrap. 1950. pp.288. 12s. 6d.* *(B) 888*

BIOLOGY

F. Galton. Hereditary genius: an inquiry into its laws and consequences. 2nd ed. *1892 [Reprinted 1950.] Watts & Co. pp.xxvii,379, charts, tables. 10s. 6d.* *(A) 889*

BIOPHYSICS

J. A. V. Butler and J. T. Randall, *eds.* Progress in biophysics and biophysical chemistry. *Butterworth. 1950. pp.viii,265, illus. 50s.* *(C) 890*

BOTANY

J. B. Hill, L. O. Overholts and H. W. Popp. Botany: a textbook for colleges. 2nd ed. *McG.-H. 1950. pp.xvi,710, 1 pl. (col.), 335 text-figs. $5.00 or 42s. 6d.* *(B) 891*

I. Manton. Problems of cytology and evolution in the Pteridophyta. *C.U.P. 1950. pp.xi,316, front., illus., bibliog. 45s.* *(C) 892*

ZOOLOGY

H. Hediger. Wild animals in captivity. Transl. by G. Sircom. Foreword by Dr. E. Hindle. *Butterworths Scientific Publications. 1950. pp.ix,207, pl., figs. 35s.* *(A) 893*

ANATOMY

[See *869*]

ENGINEERING

G. Harrison. Alexander Gibb; the story of an engineer. *Bles. 1950. pp.222, pl. 15s.* *(A) 894*

J. Stoney. Workshop engineering calculations and technical science. Vol. 2: Second and third years' course. *English Universities Press. 1950. pp.viii,212, illus. 12s. 6d.* *(B) 895*

[See also *872*]

AERONAUTICAL

F. B. Baker. The performance of civil aircraft. *Pitman. 1950. pp.xviii,302, illus., charts. 35s.* *(B) 896*

[See also *875*]

AUTOMOBILE

***The Motor* electrical manual.** A practical and fully illustrated handbook and guide for all motorists, describing in simple language the principles, construction and working of the electrical appliances used on cars. By the staff of *The Motor*. 11th ed. *Temple Press. 1950. pp.vii,211, illus., diagrs., tables. 5s.* *(B) 897*

A. P. Young and D. Griffiths. Automobile electrical equipment: a complete survey of electric lighting, starting and ignition as applied to the internal combustion engine. 4th ed. *Iliffe. 1950. pp.386, illus., charts. 25s.* 'This fourth edition brings it completely up to date.' *(B) 898*

CIVIL

[See *882, 926*]

ELECTRICAL

F. A. Annett. Electrical machinery: a practical study course on installation, operation and maintenance. 3rd ed. *McG.-H. 1950. pp.viii,458, illus. $3.75 or 32s.* *(C)899*

D. J. Bolton. Electrical engineering economics: a study of the economic use and supply of electricity. Vol. 1. General principles and choice of plant. 3rd ed. *C. & H. 1950. pp.xi,292. 25s.* *(C) 900*

W. D. Cockrell. Industrial electronic control: a guide to the understanding of electronic control circuits for industrial uses. 2nd ed. *McG.-H. 1950. pp.xv,385, illus. $4.00 or 34s.* *(C) 901*

F. F. Fergusson. Fundamental principles of water power engineering; describing types, applications and operation of water turbines, and developing the fundamental formulae of water power engineering. 3rd rev. ed. *Pitman. 1950. pp.130. 5s.* *(C) 902*

[See also *897, 898*]

ELECTRICAL COMMUNICATIONS

H. E. Hancock. Wireless at sea: the first fifty years. A history of the progress and development of marine wireless communication written to commemorate the jubilee of the Marconi International Communication, Ltd., 1950. *Chelmsford: The Company. 1950. pp.147. 5s.* *(A) 903*

INTERNAL COMBUSTION

[See *916*]

MARINE

***Motor ship* reference book.** Comp. by the staff of *The Motor Ship*. 19th ed. *Temple Press. 1950. pp.187, illus. 15s.* 'This edition is in fact a new volume.' *(C) 904*

G. Dow. British steam horses. *Phoenix House. 1950. pp.128, pl. 12s. 6d.* *(A) 905*

MECHANICAL

C. R. Hine. Machine tools for engineers. *McG.-H. 1950. pp.xi,355, illus. $3.50 or 30s.* *(C) 906*

Kent's mechanical engineers' handbook. 12th ed. Vol. 1. Design and production. Prepared by a staff of specialists, C. Carmichael, ed. Vol. 2: Power. Prepared by a staff of specialists, J. K. Salisbury, ed. *New York: Wiley; London: C. & H. 1950. pp.1672, 1473 (Wiley engineers' handbook series). $8.50 or 68s. each vol.* *(D) 907*

***Machinery*'s annual buyers' guide, 1950.** Ed. by J. F. Hartley. 23rd ed. *Brighton: Machinery Publ. Co. 1950. pp.600. 5s.* 'New features include a German-English glossary, as well as lists of professional and scientific institutions, research organizations and trade associations.' *(D) 908*

ROAD

C. F. Armstrong. Soil mechanics in road construction. *E. Arnold. 1950. pp.vii,215, illus., diagrs., bibliog. (Road-makers' library series, ed. by P. E. Spielmann. Vol. 10.) 30s.* *(C) 909*

F. G. Royal-Dawson. The highway engineers' pocket book. With a foreword by E. B. Hugh-Jones. *Spon. 1950. pp.ix,113, diagrs., tables. 12s. 6d.* *(C) 910*

WATER

[See *902*]

AGRICULTURE

R. G. Kendall. Land drainage. *Faber. 1950. pp.133, pls., illus., diagrs., maps. 12s. 6d.* *(A) 911*

LAUNDRY WORK

A. J. E. Moss. Stain removal; the technique of spotting: a manual for instructors and students of dry cleaning. *Iliffe. 1950. pp.179, illus., diagrs., glossary. 21s.* *(B) 912*

PRINTING

F. C. Avis. Printing machine and paper problems. *The Author, 76 Endlesham Road, Balham, S.W.12. 1950. pp.125, diagrs., tables, glossary. 9s. 6d. (10s. from author.)* 'Covers the preliminary stages of estimating and costing in the printing trade.' *(B) 913*

C. W. Gamble. Modern illustration processes: an introductory textbook for all students of printing methods. 3rd ed. *Pitman. 1950. pp.xxiii,472, illus., phots., diagrs. 30s.* *(B) 914*

L. Hills. Facsimile. *McG.-H. 1949. pp.xiii,319, illus., pls. $3.50 or 30s.* *(B) 915*

CHEMICAL TECHNOLOGY

C. A. Bouman. Properties of lubricating oils and engine deposits. *Macmillan. 1950. pp.viii,170, diagrs., charts, tables. 15s.* *(B) 916*

[See also *923*]

TRANSPORT

[See *905*]

INDUSTRIAL ORGANIZATION

T. H. Burnham and D. H. Bramley. Engineering economics. Book 2: Factory organization and management. 6th ed. *Pitman. 1950. pp.xii,369, illus., pl., diagrs., tables, bibliog. (Engineering degree series.) 15s.* *(C) 917*

J. A. Scott. The measurement of industrial efficiency. *Pitman. 1950. pp.viii,158. 15s.* *(C) 918*

J. E. Thompson. Inspection, organization and methods. *McG.-H. 1950. pp.xii,369, illus. (McGraw-Hill industrial organization and management series.) $5.00 or 42s. 6d.* *(C) 919*

METALLURGY

W. A. Stanley. Resistance welding; designing, tooling and applications. *McG.-H. 1950. pp.x,329, illus. $7.50 or 64s.* *(C) 920*

[See also *857, 858, 859*]

FOOD TECHNOLOGY

C. A. Kloss. The art and science of brewing. *Stuart and Richards. 1950. pp.x,121, diagrs., pls., bibliog. 12s. 6d.* *(A) 921*

FUEL TECHNOLOGY

D. H. Bangham, *ed.* Progress in coal science. *Butterworths Scientific Publications. 1950. pp.xi,456, illus., pls., diagrs., charts. (Progress series.) 40s.* *(C) 922*

B. T. Brooks and A. E. Dunstan, *gen. eds.* Crude oils: chemical and physical properties. Foreword by R. T. Haslam. *O.U.P. 1950. pp.200, illus., pls., tables. (The science of petroleum, vol. V, part 1.) 48s.* *(B) 923*

MANUFACTURES

GLASS

J. E. Stanworth. Physical properties of glass. *O.U.P. 1950. pp.viii,224. (Monographs on the physics and chemistry of materials.) 21s.* *(C) 924*

PAPER

British Paper and Board Makers' Association (Incorporated). Paper making: a general account of its history, processes, and applications. Prepared under the direction of the Education Committee of the Technical Association of the British Paper and Board Makers' Association (Incorporated). *Kenley, Sy.: The Association, St. Winifred's, Welcomes Road. 1950. pp.x,11–208, illus., diagrs., tables, bibliog., glossary. 6s.* 'A reprint of the 1949 edition.' *(B) 925*

BUILDING

Architects', builders' and civil engineers' reference book, 1950. *Editorial panel,* Evelyn Drury, F. E. Drury, A. C. Pallot. 3rd issue. *Newnes. 1950. pp.xi,868, illus., tables, diagrs. 63s.* 'The last issue of this reference work appeared in 1948. This new issue has been completely rearranged and brought up to date.' *(D) 926*

ARCHITECTURE

[See 926]

PHOTOGRAPHY

O. R. Croy. The complete art of printing and enlarging. *Focal Press. 1950. pp. 255, pls., illus., diagrs. 18s. 6d.* *(C) 927*

J. Hunt. An introduction to medical photography. Foreword by *Sir* Cecil Wakely. *Staples. 1950. pp.243, diagrs., pls., col. pls., charts, bibliog. 30s.* *(C) 928*

Ilford Limited. Photography as an aid to scientific work. 8th ed. *Ilford: Ilford Ltd. 1950. pp.viii,68, tables. 5s.* 'The last edition of this work was a 16-page booklet published in 1943. The present edition is completely re-written for the scientific worker using photography as a tool.' *(B) 929*

GEOGRAPHY

W. B. Fisher. The Middle East: a physical, social and regional geography. *Methuen. 1950. pp.xiii,514, tables, 93 text maps, 2 folding maps, bibliog. 27s. 6d.* *(B) 930*

S. M. Wadham and G. L. Wood. Land utilization in Australia. 2nd ed. rev. *Melbourne: Melbourne Univ. Press for the Australian Institute of International Affairs (Victorian Branch) in conjunction with the Institute of Pacific Relations; London: C.U.P. 1950. pp.xx,376, pls., figs. 30s.* *(C) 931*

BIOGRAPHY

[See *894*]

PUBLISHERS

A LIST of British publishers is enclosed with the first issue of each year. The following abbreviations are used in the *Aslib Book-List:*

A. & U. : Allen & Unwin
C. & H. : Chapman and Hall
C.U.P. : Cambridge University Press
H.M.S.O. : His Majesty's Stationery Office
L.G. : Longmans, Green
McG.-H. : McGraw-Hill
O. & B. : Oliver and Boyd
O.U.P. : Oxford University Press

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DECEMBER 1949
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PREFACE

THE main object of this monthly list is to provide libraries with a list of selected recent scientific and technical books. The selection has been made by those with special knowledge of the subjects. It is not claimed that the list is exhaustive and it is hoped that the range of subjects will gradually be extended.

The aim of the Publications Committee has been to secure the help of individuals and specialist organizations who are, for their own purposes, making as complete a survey as possible of the literature in their own fields and who are able to assess the relative merits of new publications. This object has already been largely achieved : over seventy specialist organizations are generously helping Aslib in this way.

The notes in inverted commas are quoted from reviews or from the recommending experts; those in square brackets are amplifications of the title compiled in the Aslib office from information supplied by the publishers.

Only books in the English language and, with few exceptions, those published within the previous six months, have been included. The limitation with regard to date, however, has been stretched sometimes in the case of books published abroad or those on very specialized subjects.

The place of publication is London unless otherwise stated.

The regular transactions of societies are not included.

The works recommended are set out for convenience under broad main headings following the order of the Universal Decimal Classification and are further classified by the following symbols :

(*A*) Books suitable for general readers, or books treating the subject in an introductory, elementary or general manner.

(*B*) Books of an intermediate degree of technicality or suitable as textbooks for students.

(*C*) Books of an advanced or specially technical character.

(*D*) Directories, dictionaries, handbooks, lists and catalogues, encyclopædias, year-books, and similar publications

A title-page, classified table of contents, and index are issued with the last number of each volume.

ASLIB BOOK-LIST

Volume 14. Number 12. December 1949

SCIENTIFIC RESEARCH

H. Butterfield. The origins of modern science, 1300–1800. *G. Bell. 1949. pp.217. 10s. 6d.* 'The outstanding developments in the mathematical, physical and biological sciences are reviewed in a manner which will be appreciated by both historian and scientist.' *(C) 899*

BIBLIOGRAPHY

T. Besterman. A world bibliography of bibliographies and of bibliographical catalogues, calendars, abstracts, digests, index, and the like. 2nd ed. rev. and enl. Vol. 2: I–Z; vol. 3: Index. *The Author, 25 Park Crescent, W.1. 1949. Not paginated. Vol. 2: [columns] 1451–3196; vol. 3 [columns] 3197–4111. 170s. (both vols.)* *(D) 900*

[See also *901, 923, 968*]

LIBRARIANSHIP

K. C. Cassidy and J. Redfield. Library classification scheme and selected bibliography of traffic engineering literature. *New Haven, Conn.: Yale University. Bureau of Highway Traffic. 1948. pp.118. Gratis.* *(B) 901*

Library Association. The place of the public library in the care of records: a symposium of personal views: an account of recent deliberations on the provision of scientific information; the resources of special libraries in London available to the public; research in librarianship; research in a restricted area; work with young people in London; reference library policy in medium-sized towns; being papers read at the week-end conference of the London and Home Counties Branch of the Library Association, held at Folkestone, October 1949. *The Association. 1949. pp.41. 5s.* *(C) 902*

Library Association year book, 1949. *The Association. 1949. pp.547, frontispiece. 8s. 6d.* 'Contains inter alia full list of members, regulations and syllabus of examinations, graded lists of text and reference books, and notes on facilities for the training in librarianship.' *(D) 903*

Special Libraries Association. Committee of the Engineering Aeronautics Section of the Science Technology Group. Subject headings for aeronautical engineering libraries. *New York: The Association. 1949. pp.256. $4. (Planographed.)* *(D) 904*

PSYCHOLOGY

N. R. F. Maier. Frustration; the study of behaviour without a goal. *McG.-H. 1949. pp.xiii.264, pl. (McGraw-Hill publications in psychology.) $3.50.* 'Reports original experimental work in animal psychology and discusses its implications for the theory of motivation.' *(C) 905*

United Nations Educational, Scientific and Cultural Organization. The influence of home and community on children under thirteen years of age. *Paris: UNESCO. 1949. pp.53, illus. (Towards world understanding, 6.) 1s.* [This pamphlet is not an official expression of the views of UNESCO, but a report of international seminars, held under the auspices of UNESCO.] *(B) 906*

[See also *907*]

EDUCATION

W. Stephenson. Testing schoolchildren; an essay in educational and social psychology. *L.G. 1949. pp.127, pl. $2.75.* *(B) 907*

United Nations Educational, Scientific and Cultural Organization. The education and training of teachers. *Paris: UNESCO. 1949. pp.61, illus. (Towards world understanding, 2.) 1s.* [This pamphlet is not an official expression of the views of UNESCO, but a report of international seminars, held under the auspices of UNESCO.] *(A) 908*

United Nations Educational, Scientific and Cultural Organization. In the classroom with children under thirteen years of age. *Paris: UNESCO. 1949. pp.63, illus. (Towards world understanding, 5.) 1s.* [This pamphlet is not an official expression of the views of UNESCO, but a report of international seminars, held under the auspices of UNESCO.] *(B) 909*

United Nations Educational, Scientific and Cultural Organization. Some suggestions on teaching about the United Nations and its specialized agencies. *Paris: UNESCO. 1949. pp.26. (Towards world understanding, 1.) 6d.* *(B) 910*

Workers' Educational Association. The W.E.A.; the next phase, by S. G. Raybould; with an introduction by R. H. Tawney. *The Association. 1949. pp.xiii.106. 3s. 6d.* *(A) 911*

[See also *906*]

DICTIONARIES

I.F. and D. W. Henderson. Dictionary of scientific terms; pronunciation, derivation and definition of terms in biology, botany, zoology, anatomy, cytology, embryology, physiology. 4th ed., by J. H. Kenneth. *Edinburgh: O. & B. 1949. pp.xvi.480. 32s.* *(D) 912*

MATHEMATICS

E. Kasner and J. Newman. Mathematics and the imagination. *Bell. 1949. pp.xiv.381, illus. 15s.* 'Illustrated with drawings and diagrams by R. Isaacs the work describes in non-technical fashion some of the simple questions from which important problems in modern science have arisen, emphasizing the two basic constituents, logic and imagination.' *(A) 913*

F. D. Murnaghan. Introduction to applied mathematics. *New York: Wiley. 1948. pp.ix.389. (Applied mathematics series.) $5.* *(B) 914*

D. E. Smith. Number stories of long ago. New ed. *Ginn. 1948. pp.viii.158. 3s. 6d.* *(A) 915*

[See also *899*]

ASTRONOMY

J. de Sacro Bosco. Sphere, and its commentators; [a critical edition of the Latin text] by L. Thorndike. *Chicago, Ill.: University of Chicago Press. 1949. pp.x.496. $10.* 'This volume is the second of a corpus of mediaeval scientific texts sponsored jointly by the Mediaeval Academy of America and the University of Chicago, under the general supervision of the Committee on Mediaeval Science of the Academy. The present volume contains commentaries by Robert of England and Cecco d'Ascoli.' *(C) 916*

[See also *919, 943*]

PHYSICS

S. Dushman. Scientific foundation of vacuum technique. *New York: Wiley. 1949. pp.ix.882, illus. $15.* *(C) 917*

M. Born. Atomic physics. 4th ed. Translated from the German by J. Dougall. *Blackie. 1948. pp.370. 25s.* 'A textbook of nuclear physics and quanta, originally published in 1946.' *(C) 918*

F. Hoyle. Some recent researches in solar physics. *C.U.P. 1949. pp.x.134, diagrs. (Cambridge monographs on physics.) 12s. 6d.* *(C) 919*

M. V. Wilkes. Oscillations of the earth's atmosphere. *C.U.P. 1949. pp.ix.76, diagrs. (Cambridge monographs on physics.) 12s. 6d.* *(C) 920*

[See also *899, 967*]

CHEMISTRY

F. Feigl. Chemistry of specific selective and sensitive reactions. Translated by R. E. Oesper. *New York: Academic Press, Inc. 1949. pp.xiv.740. $13.50.* *(C) 921*

C. E. Marshall. The colloid chemistry of silicate minerals. *New York: Academic Press. 1949. pp.ix.195, illus. (American Society of Agronomy. Agronomy, a series of monographs, vol. 1.) $5.80.* *(C 922)*

United States. Department of Agriculture. Agricultural Research Administration. Bureau of Entomology and Plant Quarantine. A second list of publications on benzene hexachloride, by C. V. Bowen. *Washington: The Department. 1948. pp.37. Gratis. On request. (Processed.)* *(D) 923*

GEOPHYSICS

[See *920*]

BIOLOGY

[See *899, 912*]

BOTANY

[See *912, 958*]

ZOOLOGY

S. Ali. Indian hill birds. *O.U.P. 1949. pp.240, 76 illus. (64 in colour.) 30s.* *(A) 924*

G. H. Bourne. The mammalian adrenal gland. *O.U.P. 1949. pp.244, figs., pls. 30s.* 'Glands of more than 250 species are described.' *(B) 925*

E. J. Gordon. Coleoptera or beetles east of the Great Plains. *Wilmington, Ohio: The Author, 392 Prairie Avenue. 1949. pp.181, 449 illus. $3.50.* *(B) 926*

Great Britain. British Museum (Natural History). Instructions for collectors. No. 4A: Insects, by J. Smart. 2nd ed. *The Museum. 1949. pp.viii.174, 40 figs. 3s. 6d.* (*A*) *927*

C. Longfield. Dragonflies of the British Isles. New ed. *Warne. 1949. pp.256, illus. (Wayside and woodland series.) 17s. 6d.* (*B*) *928*

G. E. and N. MacGinitie. Natural history of marine animals. *McG.-H. 1949. pp.xii.473, 281 figs., 1 pl. $6.* 'The book contains general scientific material of use to the layman, the teacher and student.' (*A*) *929*

F. J. W. Roughton and J. C. Kendrew, *eds.* Haemoglobin; a symposium based on a conference held at Cambridge in June 1948 in memory of Sir Joseph Barcroft. *Butterworth. 1949. pp.320, 85 diagrs. 40s. (1s. postage.)* (*C*) *930*

E. C. Zimmerman. Insects of Hawaii; a manual of the insects of the Hawaiian Islands; including an enumeration of the species and notes on their origin, distribution, hosts, parasites, etc. *Honolulu: University of Hawaii Press. 1948. Vol. 2: pp.xx.206. $3.50.; vol. 2: pp.viii.475 $5.50; vol. 3: pp.255. $4.50; vol. 4: pp.vii.268. $4.50; vol. 5: pp.vii.464. $6.* [Sponsored by Bernice P. Bishop Museum, Experimental Station of Hawaiian Sugar Planters' Association and University of Hawaii.] (*B*) *931*

ENGINEERING

General

R. W. Abbett. Engineering contracts and specifications. 2nd ed. *New York: Wiley. 1948. pp.xi.327. $3.75.* 'The legal practice indicated is American, but there should be general information of use to British readers on such matters as competitive-bid contracts, construction insurance, and principles of specification writing.' (*C*) *932*

F. H. Colvin and L. L. Haas. Jigs and fixtures; a reference book showing many types of jigs and fixtures in actual use, and suggestions for various cases. 5th ed. *McG.-H. 1948. pp.410. 27s.* 'In this revised edition there is new matter on aeroplane assembly fixtures, fixtures for welding for mass production, and on others for use in railway shops.' (*C*) *933*

Aircraft

Northrop Aeronautical Institute. Technical Development Staff. Aircraft power plants. Edited by C. E. Chapel. *McG.-H. 1949. pp.378. 36s.* (*C*) *934*

Royal Aeronautical Society. Data sheets: Aerodynamics. *The Society. 1948. Loose-leaf folio. 108s.* (*C*) *935*

Royal Aeronautical Society. Data sheets: Stressed skin structures. *The Society. 1948. 2 vols. loose-leaf folio. 205s.* (*C*) *936*

[See also *904*]

Automobile

L. Pomeroy. The Grand Prix car, 1906–1939. *Abingdon, Berks: Motor Racing Publications, Ltd. 1949. pp.419, illus. 105s.* (*A*) *937*

Civil

P. W. Abeles. The principles and practice of prestressed concrete. *C. Lockwood. 1949. pp.109. 15s.* 'Based on a series of articles in *Civil Engineering*, this book should be helpful to designers of prestressed concrete beams.' (*C*) *938*

American Society of Heating and Ventilating Engineers. Heating, ventilating and air conditioning guide, 1949. *New York: The Society. 1949. pp.1384.* $7.50. 'Includes technical data of reference material on the design and specification of heating, ventilating, and air conditioning systems.' *(D) 939*

P. L. Capper and W. F. Cassie. The mechanics of engineering soils; with a foreword by L. Scott White. *Spon. 1949. pp.270, 122 illus. (Civil engineering series. Edited by C. A. Hart.) 21s.* *(B) 940*

B. H. Knight. Soil mechanics for civil engineers. *E. Arnold. 1948. pp.255. 21s.* *(C) 941*

ELECTRICAL

T. H. Carr. Electric power supply. *Bradford, Yorks.: C. Williams, 69 Swan Arcade. 1949. pp.60, 1 illus. 2s.* 'A brief guide to the field of power supply containing articles which have appeared in the *Beama Journal*.' *(A) 942*

F. Hope-Jones. Electrical timekeeping. 2nd ed. *N.A.G. Press, 226 Latimer Court, Hammersmith Road, W.6. 1949. pp.279. 21s.* 'A revision of the author's classic work. A new chapter on the quartz crystal clock, now used in observatories, has been included.' *(C) 943*

A. D. Knowlton, *ed.* Standard handbook for electrical engineers; prepared by a staff of specialists. 8th ed. *McG.-H. 1949. pp.xi.2311.* $12. 'This handbook has been revised to include modern developments in servo-mechanisms, radar, nuclear energy, etc.' *(D) 944*

E. Molloy, *ed.* Newnes' electrical installations; covering the syllabus of the Associate Member Examination of the Institution of Electrical Engineers. 2nd ed. rev. and enl. *Newnes. 1949. pp.544, diagrs., tables. 15s.* *(B) 945*

S. H. Moorfield and H. H. Winstanley. Mechanics and applied heat with electrotechnics; a textbook for engineers. 2nd ed. *E. Arnold. 1948. pp.388. 7s. 6d.* 'For the final year's course for Ordinary National Certificate.' *(B) 946*

[See also *956*]

ELECTRICAL COMMUNICATION

G. A. Briggs. Sound reproduction. *Idle, Bradford, Yorks.: Wharfedale Wireless Works, Bradford Road. 1949. pp.143, diagrs. 7s. 6d.* 'Written with particular reference to the domestic and small hall reproduction of sound.' *(B) 947*

MARINE

Great Britain. Science Museum. Handbook of the collections illustrating merchant steamers and motor-ships, by H. P. Spratt. Part 2: Descriptive catalogue. *H.M.S.O. 1949. pp.152. 3s. 6d.* *(A) 948*

[See also *959*]

MECHANICAL

British Compressed Air Society. B.C.A.S. handbook of pneumatic equipment. 2nd ed. *The Society. 1949. pp.209. 20s.* 'Certain sections of the handbook are revised, particularly that on turbo-compressors. Air consumption tables for pneumatic tools have been added.' *(D) 949*

F. P. Bundy, T. E. Eagan, and R. L. Boyer. Wear as applied particularly to cylinders and piston rings. *Mount Vernon, Ohio: The Cooper-Bessemer Co. 1948. pp.129, illus.* $3.50. 'The authors deal with the theory of friction and wear, constant and variable pressure tests of wear, results of wear testing, and with design aspects of cylinder and ring wear. There are graphs and photomicrographs.' (*C*) *950*

V. M. Faires. Theory and practice of heat engines. *Macmillan. 1948. pp.388. 25s.* 'A fairly advanced textbook, with emphasis on the underlying laws of thermodynamics. Problems and answers are provided.' (*C*) *951*

H. H. Freeman. Turret tooling. 2nd ed. *Pitman. 1948. pp.136. 12s. 6d.* 'Detailed information for the layout man on the tools used on turret and capstan lathes.' (*C*) *952*

P.E.P. (Political and Economic Planning). Agricultural machinery; a report on the industry. *The Organization. 1949. pp.110. (P.E.P. engineering reports, 1.) 10s. 6d.* 'A report on the organization and structure of the industry, its products and its market prospects at home and abroad.' (*D*) *953*

[See also *933*]

RAILWAY

P. R. Wickham. A book of model railways. *Fercival Marshall. 1949. pp.298, diagrs., photographs, tables. 15s.* 'This book, parts of which have appeared in the magazine *Modern Railway Construction*, deals with planning, layout, trackwork, locomotive power, control and signalling, rolling stock, stations and scenic setting and stresses the value of model engineering from the historical point of view.' (*A*) *954*

AGRICULTURE

W. A. L. David. Air transport and insects of agricultural importance. *Commonwealth Institute of Entomology. 1949. pp.11. 1s. 6d.* (*B*) *955*

G. Gerard. Electricity for farmers. *Kingston Hill, Surrey: The Technical Press, Gloucester Road. 1949. pp.111, illus. 6s.* (*B*) *956*

[See also *923*, *953*]

HORTICULTURE

R. B. Dawson. Practical lawncraft. Rev. ed. *C. Lockwood. 1949. pp.315, illus. 15s.* (*B*) *957*

W. G. Sheat. Propagation of trees, shrubs and conifers. *Macmillan. 1948. pp.xii.479, illus. $7.50 or 25s.* (*B*) *958*

TRANSPORT

***Shipping World* year book, 1949–1950;** general maritime information, statutory rules and regulations, statistical tables, classified world directories of shipowners, shipbuilders, ship-repairers, towing services, marine engine builders, etc., training for the merchant navy, shipping and shipbuilding organizations, "Who's who" in the shipping world. 62nd ed. Edited by Sir Archibald Hurd. *"The Shipping World" Offices, Effingham House, Arundel Street, Strand, W.C.2. 1949. pp.1027. 25s.* (*D*) *959*

[See also *901*, *955*]

INDUSTRIAL ORGANIZATION

Federation of British Industries. Report of the conference of industrial research directors and managers, organized by the F.B.I. Industrial Research Committee and held at Ashborne Hill, Leamington Spa, Warwickshire, 11 to 14 March, 1949. Chairman: Sir Wallace Akers. *The Federation. 1949. pp.123. 2s. 6d.* (*C*) *960*

H. A. Simpson. Industrial accountancy. 2nd ed. *Pitman. 1948. pp.205. 25s.* (*C*) *961*

A. W. Willsmore. Business budgets and budgetary control. 3rd ed. *Pitman. 1949. pp.203. 15s.* 'Minor changes have been made in this edition.' (*C*) *962*

A. P. Young. American management technique and practice and their bearing on productivity in British industry. *Institution of Works Managers. 1949. pp.70. 2s. 6d.* 'The report of a five-week investigation during which the author examined the economic and industrial structure of American industry, its management, organization and methods, and productivity and its relationship to installed motive power.' (*C*) *963*

CHEMICAL TECHNOLOGY

R. F. Goldstein. The petroleum chemicals industry. *Spon. 1949. pp.449, 46 charts.* (*Industrial chemistry series.*) *Edited by H. M. Bunbury. 63s.* 'Deals predominantly with aliphatic compounds. In addition to a detailed study of the chemistry of these materials, Dr. Goldstein has included many valuable statistical tables giving production figures in various countries.' (*C*) *964*

FUEL TECHNOLOGY

Great Britain. Department of Scientific and Industrial Research. Fuel Research. The effect of certain factors on the efficiency of a hand-fired, natural-draught Lancashire boiler. *H.M.S.O. 1949. pp.33, frontispiece, diagrs., tables.* (*Technical paper No. 55.*) *1s.* (*C*) *965*

A. N. Sachanen. Conversion of petroleum; production of motor fuels by thermal and catalytic processes. 2nd ed. rev. and enl. *New York: Reinhold. 1948. pp.xii.602. $11.* (*C*) *966*

METALLURGY

B. Chalmers, *ed.* Progress in metal physics. *Butterworth. 1949. pp.464, 141 figs., 39 pls. 45s.* (*1s. 3d. postage.*) 'This is the first volume of an annual series describing progress in various branches of metal physics.' (*C*) *967*

R. D. Misch and others. Bibliographic survey of corrosion, 1945; a compilation of corrosion abstracts. *Houston 6, Tex.: National Association of Corrosion Engineers, 905 Southern Standard Building, 711 Main Street. 1948. pp.129. $5.* (*B*) *968*

C. J. Smithells, *ed.* Metals reference book. *Butterworth. 1949. pp.720, 500 diagrs. 60s.* (*1s. 3d. postage*). 'Contains a comprehensive collection of data on metallurgy and metal physics presented wherever possible in tabular or diagrammatic form. General tables such as first aid, conversion, and mathematical formulae are also included.' (*D*) *969*

MANUFACTURES

METAL WORKING

J. W. Lillico. Blacksmith's manual illustrated; a practical treatise on modern methods of production for blacksmiths, apprentice blacksmiths, engineers and others. 3rd impression. *Kingston Hill, Surrey: Technical Press, Ltd., Gloucester Road. 1949. pp.viii.211, illus. 15s.* 'Showing many methods and tools employed by the craft.' *(B) 970*

PAINTS

F. M. Crewdson. Spray painting; industrial and commercial. 2nd ed. *Wilmette, Ill.: Frederick J. Drake & Co. 1949. pp.159, illus. $2.* *(C) 971*

PLASTICS

***British Plastics* yearbook, 1949.** *Iliffe. 1949 pp.508. 30s.* 'The chief purpose of this annual is to provide a directory of makers of materials and equipment. There is also a review of recent patents.' *(D) 972*

BUILDING

United States. Department of Commerce. National Bureau of Standards. Fire resistance of structural clay tile partitions, by H. D. Foster and others. *Washington: Superintendent of Documents. 1948. pp.ii.19, illus. 15c.* *(C) 973*

United States. Department of Commerce. National Bureau of Standards. Temperatures in a test bungalow with some radiant and jacketed space heaters. *Washington: Superintendent of Documents. 1949. Not paginated. (Building materials and structures reports, 114.) 25c.* *(C) 974*

[See also *939*]

TOWN AND COUNTRY PLANNING

Great Britain. Ministry of Town and Country Planning. Reports of the Aycliffe, Crawley, Harlow, Hemel Hempstead and Stevenage Development Corporation 19[47–]48. New Towns Act, 1946. *H.M.S.O. 1949. pp.86. 1s. 6d.* *(C) 975*

ARCHITECTURE

G. D. G. Hake and E. H. Button. Architectural drawing; a practical handbook. 2nd ed. *Batsford. 1948. pp.vii.96, figs., 23 pls. 12s. 6d.* *(B) 976*

M. Sisson. Country cottages. *Methuen. 1949. pp.64, illus. (Field study books.) 6s.* *(A) 977*

GEOGRAPHY

R. H. Coats, *ed.* Canada overseas reference book; including the North West Territories, the Yukon, Labrador and Newfoundland. *Todd Reference Books, Ltd. 1949. pp.513, illus. 105s.* *(D) 978*

ASLIB BOOK-LIST

MONTHLY RECOMMENDATIONS OF
RECENTLY PUBLISHED
SCIENTIFIC AND TECHNICAL BOOKS

VOLUME 16 NUMBER 1
JANUARY 1951
Nos. 1-118

Aslib members : free. Additional copies 10s. p.a.
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PREFACE

THE main object of this monthly list is to provide libraries with a list of selected recent scientific and technical books. The selection has been made by those with special knowledge of the subjects. It is not claimed that the list is exhaustive and it is hoped that the range of subjects will gradually be extended.

The aim of the Publications Committee has been to secure the help of individuals and specialist organizations who are, for their own purposes, making as complete a survey as possible of the literature in their own fields and who are able to assess the relative merits of new publications. This object has already been largely achieved : over seventy specialist organizations are generously helping Aslib in this way.

The notes in inverted commas are quoted from reviews or from the recommending experts ; those in square brackets are amplifications of the title compiled in the Aslib office from information supplied by the publishers.

Only books in the English language and, with few exceptions, those published within the previous six months, have been included. The limitation with regard to date, however, has been stretched sometimes in the case of books published abroad or those on very specialized subjects.

The place of publication is London unless otherwise stated.

The regular transactions of societies are not included. Nor are British Standard Specifications (except bound volumes). Any inquiry regarding these should be made direct to the B.S.I., 24/28 Victoria Street, London, S.W.1.

The works recommended are set out for convenience under broad main headings following the order of the Universal Decimal Classification and are further classified by the following symbols :

(*A*) Books suitable for general readers, or books treating the subject in an introductory, elementary or general manner.

(*B*) Books of an intermediate degree of technicality or suitable as textbooks for students.

(*C*) Books of an advanced or specially technical character.

(*D*) Directories, dictionaries, handbooks, lists and catalogues, encyclopædias, year-books, and similar publications.

A title-page, classified table of contents, and index are issued with the last number of each volume.

The form of entry of references has been altered to comply with British Standard Specification 1629 : 1950

ASLIB BOOK-LIST

Volume 16 Number 1 January, 1951

SCIENCE IN GENERAL

TAYLOR, F. Sherwood.
Science past and present. 2nd ed. Heinemann, 1950. pp.378, front. (time chart), 80 illus., bibliog. 12s. 6d. 'Greatly enlarged and revised.' *(A)*

SCIENTIFIC RESEARCH

BEVERIDGE, W. I. B.
The art of scientific investigation. Heinemann, 1950. pp.xii,171, front., pls., ports., bibliog. 10s. 6d. *(A) 2*

BIBLIOGRAPHY

HARRIES, J. M., *ed.*
Union list of bibliographies; a selection of four hundred bibliographies with locations in some Metropolitan and Greater London libraries. Library Association, 1950. pp.53. 5s. *(D) 3*

LIBRARIANSHIP

RANGANATHAN, S. R.
Library tour, 1948; Europe and America, impressions and reflections. Delhi, Indian Library Association, 1950. pp.219, appendix. 18s. *(B) 4*

PHILOSOPHY

BARNES, W. H. F.
The philosophical predicament. Adam & Charles Black, 1950. pp.184. 10s. 6d. *(B) 5*

FISHER, R. A.
Creative aspects of natural law. The fourth Arthur Stanley Eddington memorial lecture. C.U.P., 1950. pp.v,23. 2s. *(A) 6*

JASPERS, K.
The perennial scope of philosophy. Transl. by R. Manheim. Routledge & Kegan Paul, 1950. pp.180. 10s. 6d. *(A) 7*

PSYCHOLOGY

CHASE, S.
The proper study of mankind; an enquiry into the science of human relations. Phoenix Press, 1950. pp.v,288. 16s. *(A) 8*

PEAR, T. H., *ed.*
Psychological factors of peace and war. Hutchinson (for the United Nations Association of Great Britain and Northern Ireland), 1950. pp.ix,262, tables, bibliogs. 16s. *(B) 9*

ZANGWILL, O. L.
An introduction to modern psychology. Methuen, 1950. pp.xii,228. 5s. *Home study books.* *(B) 10*

EDUCATION

CONNELL, W. F.
The educational thought and influence of Matthew Arnold. With an introduction by *Sir* Fred Clarke. Routledge and Kegan Paul, 1950. pp.xvi,304, tables, bibliog. 21s. *International library of sociology and social reconstruction, edited by K. Mannheim.* *(A) 11*

DUDLEY, *Sir* S. F.
The four pillars of wisdom; a rational approach to a healthy education. Watts, 1950. pp.xvii,246, bibliog. 8s. 6d. *(A) 12*

Education Authorities directory and annual
The Education Authorities directory and annual 1950, 48th year of publication. School Publishing Co., 1950. pp.c,432. 21s. *(D) 13*

SHELTON, H. S.
Thoughts of a schoolmaster. 2nd ed. Hutchinson, 1950. pp.228. 10s. 6d. 'With five new chapters.' *(A) 14*

[See also *116*]

MATHEMATICS

FOX, C.
An introduction to the calculus of variations. O.U.P., 1950. pp.viii,271. 21s. *(C) 15*

McLACHLAN, N. W.
Ordinary non-linear differential equations in engineering and physical sciences. O.U.P., 1950. pp.vii,201, tables, diagrs., bibliog. 21s. *(C) 16*

MILLER, F. H.
Analytic geometry and calculus; a unified treatment. New York, John Wiley; London, C. and H., 1949. pp.658. $5.00 or 40s. *(C) 17*

SCHRÖDINGER, E.
Space-time structure. C.U.P., 1950. pp.127, tables. 12s. 6d. *(C) 18*

[See also *20*, *118*]

PHYSICS

BOSWORTH, R. C. L.
Physics in chemical industry. With a foreword by E. K. Rideal. Macmillan, 1950. pp.xix,928, charts, tables, diagrs., list of symbols. 70s. *(C) 19*

COLE, E. B.
Theory of vibrations. 2nd ed. rev. and enl. C. Lockwood, 1950. pp.xiv,34, pls., tables, diagrs., bibliog. 18s. *(B) 20*

HALLOWS, R. W.
Atoms and atomic energy. C. & H., 1950. pp.vi,196, pls., tables, diagrs. 10s. 6d. *(A) 21*

LAUE, M. T. F. von
History of physics. R. E. Oesper, translr. New York, Academic Press Inc., 1950. pp.viii,150. $2.30 *(B) 22*

MASSEY, H. S. W.
Negative ions. 2nd ed. C.U.P., 1950. pp.xiv,136, diagrs., tables, bibliog. *Cambridge monographs on physics, general eds. N. Feather and D. Shoenberg.* 12s. 6d. 'Largely re-written.' *(C) 23*

NADAI, A. L.
Theory of flow and fracture of solids, Vol. 1. 2nd ed. McG-H, 1950. pp.xxii, 572, illus., tables, diagrs. 85s. *Engineering Society monographs series.* 'Much extended by the introduction of the consideration of fracture and its production.' *(C) 24*

[See also *18, 46*]

CHEMISTRY

BRODA, E.
Advances in radiochemistry and in the methods of producing radioelements by neutron irradiation. C.U.P., 1950. pp.xi,152, tables, references. *Cambridge monographs on physics.* 15s. *(C) 25*

GEOLOGY

BATEMAN, A. M.
Economic mineral deposits. 2nd ed. New York, John Wiley; London, C. and H., 1950. pp.xi,916, front., illus., maps, tables, diagrs., bibliog. $7.50 or 60s. 'Previous edition 1942.' *(C) 26*

CANADA, Quebec Department of Mines
Geology of Quebec, Vol. III, Economic geology. By J. A. Dresser and T. C. Denis. Quebec Department of Mines, 1950. pp.x,562. $1.50. *(C) 27*

METEOROLOGY

BROOKS, C. E. P.
Climate in everyday life. Benn, 1950. pp.314, charts, maps, tables, diagrs., bibliog. 21s. *(B) 28*

BIOLOGY

DARLINGTON, C. D., *and* MATHER, K.
Genes, plants and people. Allen and Unwin, 1950. pp.xxi, 187, illus. 16s. *Essays on genetics.* *(C) 29*

SIMPSON, G. G.
The meaning of evolution: a study of the history of life and its significance for man. O.U.P., 1950. pp.xv,365, illus. 18s. *(B) 30*

SINGER, C.
A history of biology: a general introduction to the study of living things. 2nd ed. H. K. Lewis, 1950. pp.xxxv,579, illus. 35s. 'Revised edition . . . first appeared in 1931.' *(A) 31*

ANTHROPOLOGY

[See *96*]

BOTANY

ARNON, D. I., *ed.*
Annual review of plant physiology, Vol. 1. Associate editor L. Machlis. Stanford (Calif.), Annual Reviews Inc.; London, H. K. Lewis, 1950. pp.ix, 364. $6.00 or 50s. 6d. *(C) 32*

ROBBINS, W. W., *and* **WEIER, T. E.**
Botany: an introduction to plant science. New York, John Wiley; London, C. and H., 1950. pp.ix,480, front., illus., tables, maps, diagrs., bibliog. $5.00 or 40s. *(A) 33*

RUSSELL, *Sir* **E. John.**
Conditions and plant growth. Recast and rewritten by E. Walter Russell. L.G., 1950. pp.xvi,635. 35s. *(B) 34*

WOODCOCK, H. B. D., *and* **STEARN, W. T.**
Lilies of the world; their cultivation and classification. Country Life, 1950. pp.360, illus., photos. 35s. *(C) 35*

ZOOLOGY

YOUNG, J. Z.
The life of vertebrates. Oxford, Clarendon Press, 1950. pp.xvi,767, illus., tables., diagrs. 42s. *(C) 36*

PUBLIC HEALTH

MARTIN, C. R. A.
Practical food inspection. 4th ed. H. K. Lewis, 1950. 2 vols., pp.330,316, illus., glossaries. 18s. each. [Volume 1, Meat inspection; Volume 2, Fish, poultry and other foods.] 'The new edition includes new legislation . . . also a new appendix on bacteriological classification.' *(C) 37*

PHARMACY

BECKMAN, H., *ed.*
Yearbook of drug therapy, 1949. Chicago, Yearbook Publ., 1950. pp.718. $7.45. *(D) 38*

BENNETT, R. R.
Materia medica and pharmacy for medical students. 5th ed. Revised by H. G. Rolfe. H. K. Lewis, 1950. pp.xxvi,276. 16s. *(B) 39*

DEWAR, T.
Textbook of forensic pharmacy. 2nd ed. Arnold, 1950. pp.xvi,269. 15s. *(B) 40*

KEYSER, J. W.
Chemistry and therapeutics of synthetic drugs. Newnes, 1950. pp.vii,458. 42s. *(B) 41*

LAWRENCE, C. A.
Surface active quarternary ammonium germicides. New York, Academic Press, 1950. pp.viii,245. $6.00. *(C) 42*

RAPER, K. B., *and* **THOM, C.**
A manual of penicillia. With the technical assistance and illustrations by D. I. Fennel. Baillière, 1949. pp.ix,875. 91s. 6d. *(C) 43*

ROBSON, J. M., *and* **KEELE, C. A.**
Recent advances in pharmacology. Churchill, 1950. pp.xii,418. 24s. *(B) 44*

ENGINEERING

FREUDENTHAL, A. M.
Inelastic behaviour of engineering materials and structures. New York, John Wiley; London, C. and H., 1950. pp.xvi,587, tables, diagr., bibliog. $7.50 or 60s. *(C) 45*

GEMANT, A.
Frictional phenomena. Brooklyn, Chemical Publishing Co., 1950. pp.xi,497. $12.00. *(C) 46*

LEE, G. H.
Introduction to experimental stress analysis. New York, John Wiley; London, C. and H., 1950. pp.xiv,319, front., illus., tables, diagrs., bibliog. $5.50 or 44s. *(C) 47*

CIVIL

RAO, K. L.
Calculation, design and testing of reinforced concrete; covering the syllabus of the B.Sc., Institution of Civil Engineers and Institution of Structural Engineers and diploma examinations. Pitman, 1949. pp.xii,388. 40s. *(C) 48*

ELECTRICAL

DICKINSON, C. J.
Electrophysiological technique. Electronic Engineering, 1950. pp.vii,141, front., diagrs., tables. 12s. 6d. *(B) 49*

SMITH, S. P., *and* SAY, M.G.
Electrical engineering design manual. 2nd rev. ed. C. & H., 1950. pp.xiii,259, tables, diagrs. 16s. *(B) 50*

[See also *118*, *78*]

ELECTRICAL COMMUNICATIONS

BRIGGS, C. A.
Loudspeakers: the why and how of good reproduction. 3rd ed. Idle Bradford, Wharfedale Wireless Works, 1950. pp.88, illus., tables, diagrs. 5s. 'No serious alterations have been made.' *(B) 51*

Encyclopaedia of radio and television
The encyclopaedia of radio and television. A complete alphabetical reference to all aspects of modern radio technology. Technical consultant, J. H. Reyner. Odhams Press, 1950. pp.768, illus., charts, tables, diagrs. 12s. 6d. *(D) 52*

Practical television receiver
The practical television receiver. Stage-by-stage instructions for making a highly efficient 18-valve television receiver, including instructions for adapting the Sutton Coldfield transmissions. Newnes, 1950. pp.31, illus., diagrs. 3s. 6d. *(A) 53*

SCROGGIE, M. G.
Radio laboratory handbook. 5th ed. Iliffe for "Wireless World", 1950. pp.xxxiv,430, illus., tables, diagrs. 15s. 'Added new material, in particular the more recent developments in oscillator design, . . . short explanation of the rationalized M.K.S. system of units.' *(B) 54*

INTERNAL COMBUSTION ENGINES

[See *58*]

MECHANICAL

Machinery's handbook.
Machinery's handbook. 14th ed. E. Oberg and F. D. Jones, eds. New York, Industrial Press; Brighton, Machinery Publishing Co., 1949. pp.[6]1911, illus., tables, diagrs. $7.00 or 58s. 6d. 'The usual revision has been made to bring it up to date.' *(D) 55*

MOLLOY, E., *ed.*
Diesel engine manual. Intended for erectors, installation and plant engineers, and all interested in the practical aspect of diesel engine operation. Newnes, 1950. pp.212, illus., tables, diagrs. 15s. *(B) 56*

OATES, J. A.
Turret lathe setters' pocket book. Newnes, 1950. pp.175, tables, diagrs. 6s. *A Newnes technical publication.* *(D) 57*

RIPPER, W.
Ripper's heat engines. Revised by A. T. J. Kersey. 3rd ed. L.G., 1950. pp.ix,363, illus., tables, diagrs. 7s. 6d. 'About 25 pages longer, includes more modern practice in boilers, steam turbines and internal combustion engines, paying special attention to fuel conservation. *(58)*

SALISBURY, J. K.
Steam turbines and their cycles. New York, John Wiley; London, C. and H., 1950. pp.xvi,645, illus., tables, diagrs., bibliog. $7.50 or 72s. *(C) 59*

THOMSON, W. T.
Mechanical vibrations. A. & U., 1950. pp. xii,222, charts, diagrs. 15s. *(B) 60*

[See also *64*]

MINING

MASON, E.
Practical coal mining for miners. Virtue, 1950. 2 vols., pp.xv,364 and xii, 347-787, illus., col. pls., maps, pls., tables, diagrs. 70s. *(A) 61*

AGRICULTURE

GROUT, R. *ed.*
The hive and the honey bee. Revised edition. Hamilton, Ill., Dadant & Sons; London, C. and H., 1949. pp.xviii,652, illus. $4.00 or 32s. 'A new book on beekeeping to succeed the book "Langstroth on the hive and the honey bee" '. *(B) 62*

MASEFIELD, G. B.
A short history of agriculture in the British colonies. Oxford, Clarendon Press, 1950. pp.viii,179, bibliogs. 10s. 6d. *(A) 63*

PURVIS, G. H. *ed.*
The student's handbook to farming implements and machinery. Littlebury, [1950]. pp.140, illus., diagrs. 12s. 6d. *(A) 64*

HORTICULTURE

CROWTHER, D. S.
Fruit for small gardens. Collingridge, 1950. pp.152, illus. 6s. *(A) 65*

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PREFACE

THE main object of this monthly list is to provide libraries with a list of selected recent scientific and technical books. The selection has been made by those with special knowledge of the subjects. It is not claimed that the list is exhaustive and it is hoped that the range of subjects will gradually be extended.

The aim of the Publications Committee has been to secure the help of individuals and specialist organizations who are, for their own purposes, making as complete a survey as possible of the literature in their own fields and who are able to assess the relative merits of new publications. This object has already been largely achieved : over seventy specialist organizations are generously helping Aslib in this way.

The notes in inverted commas are quoted from reviews or from the recommending experts ; those in square brackets are amplifications of the title compiled in the Aslib office from information supplied by the publishers.

Only books in the English language and, with few exceptions, those published within the previous six months have been included. The limitation with regard to date, however, has been stretched sometimes in the case of books published abroad or those on very specialized subjects.

The place of publication is London unless otherwise stated.

The regular transactions of societies are not included. Nor are British Standard Specifications (except bound volumes). Any inquiry regarding these should be made direct to the B.S.I., 24/28 Victoria Street, London, S.W.1.

The works recommended are set out for convenience under broad main headings following the order of the Universal Decimal Classification and are further classified by the following symbols :

(*A*) Books suitable for general readers, or books treating the subject in an introductory, elementary or general manner.

(*B*) Books of an intermediate degree of technicality or suitable as textbooks for students.

(*C*) Books of an advanced or specially technical character.

(*D*) Directories, dictionaries, handbooks, lists and catalogues, encyclopædias, year-books, and similar publications.

A title-page, classified table of contents, and index are issued with the last number of each volume.

The form of entry of references has been altered to comply with British Standard Specification 1629 : 1950.

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Volume 16 Number 2 February, 1951

SCIENCE IN GENERAL

ACKERMANN, A. S. E.
Popular fallacies: a book of common errors, explained and corrected, with copious references to authorities. With an introduction by Sir Richard Gregory. 4th ed. Old Westminster Press, 1950. pp.xv,843. 30s. 'Some 800 more fallacies are listed than in the third edition.' *(A) 119*

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UNITED STATES. Library of Congress.
Korea: an annotated bibliography of publications in western languages. Washington, Library of Congress, 1950. pp.ix,155. $1.10 *(D) 120*

UNITED STATES. Library of Congress.
United States atlases: a list of national, state, county, city, and regional atlases in the Library of Congress. Compiled by C. E. Le Gear. Washington, Library of Congress, 1950. pp.viii,445. $2.25. *(D) 121*

LIBRARIANSHIP

BRITISH STANDARDS INSTITUTION
Universal decimal classification. Index to vol. 2, part 3. Geology, geophysics, palaeontology, biology, botany, zoology. The Institution, 1950. pp.32. 3s. 6d. *(D) 122*

LIBRARY ASSOCIATION
Proceedings of the annual conference, London, 1950. The Association, 1950. pp.99, pls. 2s. 6d. *(B) 123*

PSYCHOLOGY

KNIGHT, M., *ed.*
William James; a selection of his writings on psychology. Harmondsworth, Middlesex, Penguin Books, 1950. pp.248. 1s. 6d. *Pelican books on psychology series, ed. by C. A. Mace.* *(A) 124*

MUNN, N. L.
Handbook of psychological research on the rat: an introduction to animal psychology. Ed. L. Carmichael. New York, Houghton Mifflin Co.; London, Harrap, 1950. pp.xxvi,598, illus., tables, diagrs., bibliog. $5 or 53s.
(C) 125

SOCIAL SCIENCE

WOOTTON, B.
Testament for social science: an essay in the application of scientific method tc human problems. A. & U., 1950. pp.vii,198. 15s. *(A) 126*

STATISTICS

SCHROCK, E. M.
Quality control and statistical methods. New York, Reinhold; London, C. & H., 1950. pp.xi,213. $5 or 40s. *(C) 127*

[See also *136*]

ECONOMICS

MARTIN, W. A. G.
A century of Liverpool's commerce. Liverpool, Birchall, 1950. pp.viii,229, pls. 7s. 6d. *(A) 128*

EDUCATION

BOYD, W.
The history of western education. 5th ed. enlarged. Black, 1950. pp.xi,473. 20s. 'Previous ed. 1947.' *(B) 129*

PHILOLOGY

PATTERSON, A. M.
A German-English dictionary for chemists. 3rd ed. New York, Wiley; London, C. & H., 1950. pp.xviii,541. $5 or 40s. 'Previous ed. 1935.' *(D) 130*

POTTER, S.
Our language. Harmondsworth, Middlesex, Penguin Books, 1950. pp.202, bibliog. 1s. 6d. *Pelican books A227.* *(A) 131*

MATHEMATICS

ADAMS, D. P.
An index of nomograms. New York, Wiley (for Massachusetts Institute of Technology); London, C. & H., 1950. pp.ix,174, tables. $4 or 32s. *Principles of electrical engineering series.* *(C) 132*

ALLCOCK, H. J., *and* **JONES, J. R.**
The nomogram: the theory and practical construction of computation charts. 4th ed. rev. by J. G. L. Michel. Pitman, 1950. pp.x,238, tables, diagrs. 18s. 'Amended notation throughout . . . an extra chapter between the intersection and alignment charts by way of the principles of duality.' *(B) 133*

COOKE, R. G.
Infinite matrices and sequence spaces. Macmillan, 1950. pp.xiii,347, examples, bibliog. 42s. *(C) 134*

POL, B. van der, *and* **BREMMER, H.**
Operational calculus based on the two-sided Laplace integral. C.U.P., 1950. pp.xiii,415, diagrs., bibliog., 55s. *(C) 135*

QUENOUILLE, M. H.
Introductory statistics. Butterworth-Springer Ltd., 1950. pp.248, illus., tables, diagrs., bibliog. 30s. *(B) 136*

RAWLINGS, G. P.
The slide rule in theory and practice. Percival Marshall, 1950. pp.127, illus., tables, diagrs. 9s. 6d. *(B) 137*

ASTRONOMY

ALFVÉN, H.
Cosmical electrodynamics. O.U.P., 1950. pp.viii,237, diagrs. 25s. *International series of monographs on physics.* *(C) 138*

BAKER, R. H.
Astronomy: a textbook for university and college students. 5th ed. New York, Van Nostrand, 1950. pp.x,526, illus. $4.75. '60 pages of material have been added . . : general arrangement only slightly changed.' *(B) 139*

SMART, W. M.
Some famous stars. L.G., 1950. pp.219, front., pls., tables, diagrs. 15s. *(B) 140*

PHYSICS

FINKELNBURG, W.
Atomic physics. Translated from the revised German ed. in co-operation with the author by G. E. Brown. New York and London, McG.-H., 1950. pp.x,498, illus. $6.50 or 46s. *International series in pure and applied physics.* *(C) 141*

FRISCH, O. R., *ed.*
Progress in nuclear physics. Butterworth-Springer, 1950. pp.viii,224, pls., charts, tables, diagrs. 45s. *Progress series.* *(C) 142*

WILKES, G. B.
Heat insulation. New York, Wiley, 1950. pp.vii,224. $4. *(C) 143*

[See also *138*]

CHEMISTRY

CUMMING, W. M., HOPPER, I. V., *and* **WHEELER, T. Sherlock.**
Systematic organic chemistry; modern methods of preparation and estimation. 4th ed. rev. Constable, 1950. pp.xxviii,556, diagrs. 37s. 6d. 'New sections on ozonalysis, hydrogenation, chromatography, etc.' *(C) 144*

KOLTHOFF, I. M., *and* **SANDELL, E. B.**
Textbook of quantitative inorganic analysis. 1st English ed. Macmillan, 1950. pp.xvii,794, charts, tables, diagrs. 30s. *(C) 145*

PERCIVAL, E. G. V.
Structural carbohydrate chemistry. Muller, 1950. pp.viii,246. 25s. *(C) 146*

[See also *130*]

MINERALOGY

HEY, M.
An index of mineral species and varieties arranged chemically. With an alphabet of accepted mineral names and synonyms. British Museum (Natural History), Dept. of Mineralogy, 1950. pp.609. 30s. *(D) 147*

METEOROLOGY

BURGESS, C. R.
Meteorology for seamen. Glasgow, Brown, Son & Ferguson, 1950. pp.xi,252, illus., maps. 15s. *(B) 148*

CONRAD, V., *and* POLLAK, L. W.
Methods in climatology. 2nd ed. Cambridge, Massachusetts, Harvard University Press, 1950. pp.xxvii,459, illus., maps. $7.50. [Enlarged.]
(C) 149

BIOLOGY

GALLOWAY, L. D., *and* BURGESS, R., *comp.*
Applied mycology and bacteriology. 3rd ed. rev. by L. D. Galloway. Leonard Hill, 1950. pp.viii,184, pls., diagrs., bibliog. 12s. *(B) 150*

HORSTADIUS, S.
The neural crest; its properties and derivatives in the light of experimental research. Based on a series of special university lectures delivered before the University of London. O.U.P., 1950. pp.ix,111, illus., tables, diagrs., bibliog. 15s. *(C) 151*

LERNER, I. M.
Population genetics and animal improvement as illustrated by the inheritance of egg production. C.U.P., 1950. pp.xviii,342, tables, diagrs., bibliog. 30s. *Cambridge biological studies series, edited by C. H. Waddington.* *(C) 152*

BIOCHEMISTRY

[See *160*]

BOTANY

KLOSE, N.
America's crop heritage; the history of foreign plant introduction by the Federal Government. Iowa State College Press, 1950. pp.viii,156, illus. $3.50. *(A) 153*

LLOYD, B.
A dictionary of botanical terms. University of London Press, 1950. pp.64, illus., diagrs. 2s. 6d. *(D) 154*

ROSS-CRAIG, S.
Drawings of British plants; being illustrations of the species of flowering plants growing naturally in the British Isles. Part 4, Resedaceae, cistaceae, polygalaceae, frankeniaceae. Bell, 1950. pp.[7]26, pls. 5s. *(A) 155*

WAKEFIELD, E. M., *and* DENNIS, R. W. G.
Common British fungi. Gawthorn, 1950. pp.290, illus., col. pls. 35s.
(B) 156

ZOOLOGY

BALFOUR-BROWNE, F.
British water beetles. Vol. 2. Ray Society, The British Museum (Natural History). Sold by B. Quaritch, 1950. pp.xx,394, front., illus., maps, diagrs., bibliog. 27s. 6d. *Ray Society series no. 134.* (*B*) *157*

LEESON, F.
Identification of snakes of the Gold Coast. Crown Agents for the Colonies, for The Government of the Gold Coast, 4 Millbank, S.W.1, 1950. pp.x,142, illus. (some col.), pls. (some col.), tables, diagrs. 18s. (*A*) *158*

LINTON, R. G.
Animal nutrition and veterinary dietetics. Ed. by J. T. Abrams. 3rd ed. Edinburgh, Green, 1950. pp.521, illus. 42s. 'Previous ed. 1943.' (*B*) *159*
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PHYSIOLOGY

BELL, G. H., DAVIDSON, J. N., *and* SCARBOROUGH, H.
Textbook of physiology and biochemistry. Foreword by R. C. Garry. Edinburgh, E. & S. Livingstone, 1950. pp.x,918, illus., pls., diagrs., charts, tables. 45s. (*B*) *160*

PHARMACY

MICKS, R. H.
The essentials of materia medica, pharmacology and therapeutics. 5th ed. Churchill, 1950. pp.x,438. 21s. (*C*) *161*

ENGINEERING

Aeronautical

BONNEY, E. A.
Engineering supersonic aerodynamics. New York and London, McG.-H., 1950. pp.xi,264. $4 or 34s. (*C*) *162*

WARRING, R. H.
Power duration models. Marshall, 1951. pp.[8]100, tables, diagrs. 6s. (*A*) *163*

Automobile

GEORGI, C. W.
Motor oils and engine lubrication. New York, Reinhold, 1950. pp.xii,514, illus. $8.50. (*B*) *164*

Civil

YOUNG, J. McHardy.
Structural theory and design. Vol. 1. Foreword by V. A. M. Robertson. Lockwood, 1950. pp.viii,285, tables, diagrs. 25s. (*B*) *165*

Electrical Communications

ALBERT, A. L.
Electrical communication. 3rd ed. New York, Wiley, 1950. pp.ix,593, illus. $6.50. 'Follows general scheme of earlier editions.' *(C) 166*

COCKING, W. T.
Wireless servicing manual. 8th ed. Iliffe, 1950. pp.viii,296,xxiv, photographs, diagrs. 12s. 6d. 'Little change.' *(B) 167*

Internal Combustion

COLLACOTT, R. A.
Horizontal diesel engines. Foreword by D. S. Dodsley Williams. Temple Press, 1950. pp.vii,122, illus., charts, diagrs. 8s. 6d. *(A) 168*

JUDGE, A. W.
Modern gas turbines; with special reference to stationary, aircraft, locomotive, and marine types and to the supercharging of internal combustion engines. 2nd ed. rev. C. & H., 1950. pp.xii,388, illus., pls., charts, tables, diagrs., bibliog. 32s. 'New chapter added . . . text references and bibliography extended.' *(C) 169*

Mechanical

GILL, E. T., *and* SIMONS, E. N.
Modern welding technique. Pitman, 1950. pp.x,276. 21s. *(C) 170*

HAYES, H.
Drop forging: an introductory treatise on the equipment and methods of the drop-forge shop and the thermal and mechanical treatment and metallurgy of drop forging, with many examples from practice. 2nd ed. Pitman, 1950. pp.ix,105, illus. 6s. *(C) 171*

Machinery's gear design handbook
Machinery's gear design handbook. 2nd ed. by W. A. Tuplin. Machinery Publ. Co. Ltd., 1950. pp.74, illus., charts, tables, diagrs. 12s. 6d. 'This edition gives improved methods of design for worm and spiral gears.' *(D) 172*

[See also *179*, *180*]

Naval

PURSEY, H. J.
Merchant ship construction; especially written for the merchant navy. 2nd ed. Glasgow, Brown, Son and Ferguson, 1950. pp.xiv,221, illus., pls., diagrs. 21s. 'Revised and extended throughout.' *(B) 173*

Refrigerating

ALTHOUSE, A. D., *and* TURNQUIST, C. H.
Modern electric and gas refrigeration. 5th ed. rev. Chicago, Goodheart-Willcox, 1950. pp.945, illus. $5. 'Two new chapters have been added.' *(B) 174*

WATER SUPPLY

DIXEY, F.
A practical handbook of water supply. 2nd ed. Murby, 1950. pp.xxxvi,573, front. (phot.), figures, maps. 35s. *(B) 175*

AGRICULTURE

DAVIES, R. E.
Pigs and bacon curing: a practical manual on the various methods of feeding pigs, curing hams and bacon, and utilizing the by-products of swine. 4th ed. rev. Legal appendix by F. Gerrard. Kingston Hill, Surrey, Technical Press, 1950. pp.viii,119, front., illus., pls. 8s. 6d. 'The main value of this revision lies in an additional paragraph on development and growth, and the amendments embodied in the "Legal Appendix".' *(A) 176*

DUGGAN, I. W., *and* **BATTLES, R. U.**
Financing the farm business. New York, Wiley; London, C. & H., 1950. pp.viii,354, illus., tables, diagrs., bibliogs. $4 or 32s. *Wiley farm series.* *(B) 177*

FAULKNER, R. P.
The science of turf cultivation. Foreword by M. A. F. Sutton. Kingston Hill, Surrey, Technical Press, 1950. pp.ix,64, illus. 7s. 6d. *(B) 178*

JOHNSON, E. L., *and* **HOLLENBERG, A. H.**
Servicing and maintaining farm tractors. New York and London, McG.-H., 1950. pp.xvi,313, illus., tables, diagrs., bibliog. $3 or 32s. 6d. *McG.-H. rural activities series, ed. by W. A. Ross.* *(A) 179*

WRIGHT, S. J., *ed.*
Mechanized farming: a complete handbook for the modern farmer. Foreword by Sir James Turner. 2nd ed. rev. Anglo-American Oil Co., 1950. pp.160, illus., tables, diagrs. 8s. 6d. 'Previous ed. 1948.' *(A) 180*

[See also *153*]

INDUSTRIAL ORGANIZATION

COPE, E. A., *and* **CURTIS, C. R.**
Filing systems; their principles and their applications to modern office requirements. 3rd ed. Pitman, 1950. pp.vii,186, illus., pls. 8s. 6d. *(B) 181*

ORD, L. C.
Industrial facts and fallacies. Foreword by G. Earle. Mayflower Publ. Co., 1950. pp.xi,207. 10s. 6d. *(B) 182*

TRANSPORT

KITCHIN, L. D.
Road transport law. 7th ed. Iliffe, 1950. pp.126, maps, tables. 7s. 6d. 'Previous ed. 1949.' *(B) 183*

TAFF, C. A.
Commercial motor transportation. Chicago, Irwin, 1950. pp.x,413, illus., maps. $6.50. *(B) 184*

CHEMICAL TECHNOLOGY

FAITH, W. L., and others.
Industrial chemicals. New York, Wiley, 1950. pp.xi,652, maps. $8. (*C*) *185*

FUEL TECHNOLOGY

PIRSON, S. J.
Elements of oil reservoir engineering. New York, McG.-H., 1950. pp.vii,441. $6.50. (*C*) *186*

SPIERS, H. M., *ed.*
Technical data on fuel. 5th ed. British National Committee, World Power Conference, 201 Grand Buildings, Trafalgar Square, W.C.2, 1950. pp.xv,515. 25s. (*C*) *187*

METALLURGY

HULL, D. R.
Casting of brass and bronze: some practical aspects of brass and bronze casting in America. 1900 to 1950. Cleveland, Ohio, Amer. Society for Metals, 7301 Euclid Avenue, 1950. pp.186 illus. $3.50. (*C*) *188*

SCHWARTZ, H. A.
Foundry science; fundamentals underlying foundry practice. New York, Pitman, 1950. pp.xvi,286. $6.50. *Pitman metallurgy series.* (*C*) *189*

MANUFACTURES

Ceramics Industry

HAGGAR, R. G.
English country pottery. Phoenix House, 1950. pp.160, front., illus., pls., bibliog. 15s. (*A*) *190*

HONEY, W. B.
French porcelain of the 18th century. Faber & Faber, 1950. pp.xv,79, front. (col.), illus., pls. (some col.), bibliog. 25s. (*A*) *191*

BUILDING

MITCHELL, G. A., *and* **MITCHELL, A. M.**
Building construction and drawing: a textbook on the principles and details of modern construction for the use of students and practical men. Part 1, Elementary course. 20th ed. revised and re-illustrated under the editorship of W. Hanneford-Smith. Batsford, 1950. pp.viii,648, illus., plates, plans, tables, diagrs. 10s. 6d. (*B*) *192*

TOWN AND COUNTRY PLANNING

HACKETT, B.
Man, society and environment; the historical basis of planning. Marshall, 1950. pp.xiv,317, illus., plates, bibliog. 30s (*B*) *193*

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PUBLISHERS

The following abbreviations are used in the *Aslib Book-List*.

A. & U. : Allen & Unwin
C. & H. : Chapman and Hall
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L.G. : Longmans, Green
McG.-H. : McGraw-Hill
O. & B. : Oliver and Boyd
O.U.P. : Oxford University Press

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MARCH 1951
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PREFACE

THE main object of this monthly list is to provide libraries with a list of selected recent scientific and technical books. The selection has been made by those with special knowledge of the subjects. It is not claimed that the list is exhaustive and it is hoped that the range of subjects will gradually be extended.

The aim of the Publications Committee has been to secure the help of individuals and specialist organizations who are, for their own purposes, making as complete a survey as possible of the literature in their own fields and who are able to assess the relative merits of new publications. This object has already been largely achieved : over seventy specialist organizations are generously helping Aslib in this way.

The notes in inverted commas are quoted from reviews or from the recommending experts ; those in square brackets are amplifications of the title compiled in the Aslib office from information supplied by the publishers.

Only books in the English language and, with few exceptions, those published within the previous six months, have been included. The limitation with regard to date, however, has been stretched sometimes in the case of books published abroad or those on very specialized subjects.

The place of publication is London unless otherwise stated.

The regular transactions of societies are not included. Nor are British Standard Specifications (except bound volumes). Any inquiry regarding these should be made direct to the B.S.I., 24/28 Victoria Street, London, S.W.1.

The works recommended are set out for convenience under broad main headings following the order of the Universal Decimal Classification and are further classified by the following symbols :

(*A*) Books suitable for general readers, or books treating the subject in an introductory, elementary or general manner.

(*B*) Books of an intermediate degree of technicality or suitable as textbooks for students.

(*C*) Books of an advanced or specially technical character.

(*D*) Directories, dictionaries, handbooks, lists and catalogues, encyclopædias, year-books, and similar publications.

A title-page, classified table of contents, and index are issued with the last number of each volume.

The form of entry of references has been altered to comply with British Standard Specification 1629 : 1950.

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LIBRARIANSHIP

RONEO LIMITED
Planning the library: a guide to those considering problems of library design, book storage and shelving. Roneo Ltd., 17 Southampton Row, W.C.1, 1950. pp.95, front., illus., plans, diagrs. 10s. 6d. (*A*) *194*

PSYCHOLOGY

ADINARAYAN, S. P.
The human mind. Hutchinson, 1950. pp.195, tables, diagrs., bibliog. 7s. 6d. *Hutchinson's university library, psychology series, ed. by Flugel.* (*B*) *195*

CATTELL, R. B.
An introduction to personality study. Hutchinson, 1950. pp.235, tables, diagrs. 7s. 6d. *Hutchinson's university library, psychology series, ed. by Flugel.* (*B*) *196*

GOODENOUGH, F. L.
Mental testing; its history, principles, and applications. Staples, 1950. pp.xxi,609, front., illus. (incl. ports.), tables, diagrs., bibliog. 42s. (*B*) *197*

STATISTICS

JOHNSON, N. L., *and* TETLEY, H.
Statistics: an intermediate textbook, vol. 2. C.U.P. (for the Institute and the Faculty of Actuaries), 1950. pp.xi,318, tables, diagrs. 20s. (*B*) *198*

[See also *204*]

ECONOMICS

ENKE, S., *and* SALERA, V.
International economics. Dobson, 1950. pp.xvi,731, facsims., tables, diagrs., bibliog. 30s. (*B*) *199*

JOHNSON, C. G. A. Yate
Trade marks and industrial designs; their history, development and protection. Presidential address to the Royal Scottish Society of Arts. Edinburgh, Johnson's, 10 Stafford Street, 1950. pp.30, front. (port.), plates, facsims. 2s. 6d. (*A*) *200*

EDUCATION

CURTIS, S. J.
History of education in Great Britain. 2nd ed. University Tutorial Press, 1950. pp.vii,637, maps, tables, bibliog. 18s 6d. 'Text brought up to date, several chapters rewritten.' *(B) 201*

JEFFREYS, M. V. C.
Glaucon: an inquiry into the aims of education. Pitman, 1950. pp.x,173. 12s. 6d. *(B) 202*

PHILIPS, H., *and* McINNES, F. J. C.
Exploration in the junior school. University of London Press, [1950]. pp.272, plates, tables, diagrs., bibliog. 8s. 6d *(B) 203*

MATHEMATICS

FISHER, R. A.
Contributions to mathematical statistics. Index prepared by J. Tukey. New York, Wiley; London, C. & H., 1950. pp.[674], front. (port.), tables, diagrs., bibliog. $7.50 or 60s. *Wiley publications in statistics, ed. by W. A. Shewhart.* Variously paged. *(C) 204*

HILL, R.
The mathematical theory of plasticity. O U.P., 1950. pp.ix,356, tables, diagrs. 35s. *Oxford engineering science.* *(C) 205*

JONES, B. W.
The arithmetic theory of quadratic forms. New York, Wiley (for Mathematical Association of America); [London, C. & H.], [1950]. pp.x,212, tables, diagrs., bibliog. $3 or 24s. *Carus mathematical monographs, no. 10.* *(C) 206*

POLLARD, H.
The theory of algebraic numbers. New York, Wiley (for Mathematical Association of America); [London, C. & H.], [1950]. pp.xii,143, tables, bibliog. $3 or 24s. *Carus mathematical monographs, no. 9.* *(C) 207*

PORTER, A.
An introduction to servo-mechanisms. Methuen, 1950. pp.vii,154, tables, diagrs., bibliog. 7s. 6d. *Methuen's monographs on physical subjects, ed. by B. L. Worsnop.* *(B) 208*

[See also *198*]

PHYSICS

POWELL, L. S.
Elementary physics for technical students. Pitman, 1950. pp.viii,216. 6s. 6d. *Pitman's secondary technical engineering series.* *(B) 209*

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GEOLOGY

COLE, S. M.
An outline of the geology of Kenya. Pitman, 1950. pp.xiii,58, illus., maps, tables, diagrs. 6s. (*A*) *210*

ZEUNER, F. E.
Dating the past: an introduction to geochronology. 2nd ed. Methuen, 1950. pp.xviii,474, illus., tables. 30s. 'Information brought up to date.' (*C*) *211*

ARCHÆOLOGY

KINGDON-WARD, F.
Footsteps in civilization. Illus. by E. Pinner. Cape, 1950. pp.ix,240, illus., table. 12s. 6d. (*A*) *212*

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BACTERIOLOGY

BAWDEN, F. C.
Plant viruses and virus diseases. 3rd ed. revised. New York, Chronica Botanica and Hafner Publ. Co., 1950. pp.xv,336, front., illus. $6.50. *New series of plant sciences books, vol. 23.* (*C*) *213*

LONDON UNIVERSITY, School of Hygiene and Tropical Medicine
Anopheles and malaria in the Near East. Introduction by Professor P. A. Buxton. H. K. Lewis, 1950. pp.xii,223, front., illus., plates, maps, plans, charts, tables, bibliog. 35s. *Memoir series, No. 7.* (*C*) *214*

MERCHANT, I. A.
Veterinary bacteriology and virology. 4th ed. Iowa State College Press, 1950. pp.viii,855, illus. $8.50. 'Previous ed. 1946.' (*C*) *215*

SMITH, K. M.
An introduction to the study of viruses. Pitman, 1950. pp.ix,106, illus., plates, tables, bibliog. 10s. 6d. *Pitman's microbiology series, no. 1.* (*B*) *216*

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BOTANY

GILBERT-CARTER, H.
Glossary of the British flora. Preface by C. E. Raven. C.U.P., 1950. pp.xviii,79, tables, bibliog. 8s. 6d. (*A*) *217*

HAWKER, L. E.
Physiology of fungi. With a foreword by Professor W. Brown. University of London Press, 1950. pp.xvi,360, illus., plates., diagrs., bibliog. 21s. (*C*) *218*

STEBBINGS, G. Ledyard
Variation and evolution in plants. C.U.P., 1950. pp.xx,643, illus., maps, tables, diagrs., bibliog. 50s. (*C*) *219*

STILES, W.
An introduction to the principles of plant physiology. 2nd ed. Methuen, 1950. pp.ix,701, plates, diagrs., bibliog. 60s. 'Several sections have been rewritten.' *(B) 220*

ZOOLOGY

BENESCH, F., *and* WRIGHT, J. G.
Veterinary obstetrics; including certain aspects of the physiology and pathology of reproduction in domestic animals. 2nd ed. Baillière, Tindall and Cox, 1950. pp.viii,459, illus., col. plate, tables, diagrs., bibliog. 50s. *(C) 221*

CABLE, R. M.
An illustrated laboratory manual of parasitology. Revised ed. Minneapolis, Minn., Burgess Publ. Co., 1950. pp.viii,152, illus. $2.25. *(B) 222*

WHITEHEAD, G. K.
Deer and their management in the deer parks of Great Britain and Ireland. Country Life, 1950. pp.370, front., plates, plans, tables, diagrs. 84s. *(B) 223*

YEATES, G. K.
Flamingo city. Country Life, 1950. pp.216, col. front., plates (some col.), map, bibliog. 25s. *(A) 224*

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PHARMACY

COOPER, J. W., *and* GUNN, C.
Dispensing for pharmaceutical students. 10th ed. Pitman, 1950. pp.xiv,618, illus., tables, diagrs. 16s. 'Previous ed. 1943.' *(B) 225*

MANSKE, R. H. F., *and* HOLMES, H. L., *eds.*
Alkaloids; chemistry and physiology. New York, Academic Press, 1950. pp.viii,525. $10. *(C) 226*

VETERINARY SCIENCE

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ENGINEERING

AERONAUTICAL

KUETHE, A. M., *and* SCHETZER, J. D.
Foundations of aerodynamics. New York, Wiley, 1950. pp.ix,374, tables, diagrs. $5.75. *(B) 227*

NEWTON, K., *and* STEEDS, W.
The motor vehicle: a descriptive textbook for students, draughtsmen and owner-drivers. 4th ed. Iliffe, 1950. pp.590, illus., plans, charts, tables, diagrs., glossary. 35s. *(B) 228*

ELECTRICAL

BAXTER, H. W.
Electric fuses. Edward Arnold, 1950. pp.x,199, front., illus., charts, tables, diagrs., bibliog. 21s. *(B) 229*

BENSON, F. A.
Voltage stabilizers. Electronic Engineering, 1950. pp.125, illus., tables, diagrs., bibliog. 12s. 6d. *(B) 230*

CONNELLY, F. C.
Transformers; their principles and design for light electrical engineers. Pitman, 1950. pp.xiv,490, tables, diagrs., bibliog. 35s. *(B) 231*

[See also *263*]

ELECTRICAL COMMUNICATIONS

COCKING, W. T.
Television receiving equipment. 3rd ed. Iliffe for ' Wireless World ', 1950. pp.xx,375, illus., charts, diagrs., glossary. 18s. ' Many chapters rewritten, and much new material added.' *(B) 232*

PARKER, P.
Electronics. Edward Arnold, 1950. pp.viii, 1050, illus., tables, diagrs., bibliog. 50s. *(B) 233*

RISSIK, H.
Power system interconnection (transmission problems). 2nd ed. Pitman, 1950. pp.xiii,239. 25s. *(C) 234*

MECHANICAL

HETÉNYI, M., *ed.*
Handbook of experimental stress analysis. New York, Wiley, 1950. pp.xii, 1077, charts, tables, diagrs. $15. *(C) 235*

LIPSON, C., *and others.*
Stress and strength of manufactured parts. New York and London, McG.-H., 1950. pp.xvi,259. $4.50 or 38s. 6d. *(B) 236*

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AGRICULTURE

ASHTON, W. M.
Elements of animal nutrition. Griffin, 1950. pp.xii,208, tables, bibliog. 20s. *(B) 237*

WARE, R. R.
Estate management for the farmer. Bles, 1950. pp.ix,147, bibliog. 10s. 6d. *(B) 238*

[See also *213, 216*]

CROPS

SMOCK, R. M., *and* **NEUBERT, A. M.**
Apples and apple products. New York and London, Interscience, 1950. pp.xvi,486, illus., tables, diagrs. $7.80 or 60s. *Economic crops series, ed. by Z. I. Kertesz, vol. 2* *(C) 239*

FORESTRY

BRUCE, D., *and* **SCHUMACHER, F. X.**
Forest mensuration. 3rd ed. New York and London, McG.-H., 1950. pp.xviii, 483, tables, diagrs., bibliog. $5 or 42s. 6d. *American forestry series, ed. by W. Mulford.* 'Several chapters entirely rewritten, and new material added.' *(B) 240*

HORTICULTURE

REED, F. J.
Lawns and playing fields. Faber, 1950. pp.212, illus., plates, tables, bibliog. 16s. *(B).241*

INDUSTRIAL ORGANIZATION

DELENS, A. H. R.
Principles of market research. Crosby Lockwood, 1950. pp.254, illus., tables, diagrs., bibliog. 15s. *(C) 242*

NORTHCOTT, C. H.
Personnel management; its scope and practice. 2nd ed. Pitman, 1950. pp.viii,336. 18s. 'Revised, and brought up to date as regards industrial legislation.' *(C) 243*

TINBERGEN, J.
The dynamics of business cycles: a study of economic fluctuations. Revised by J. J. Polak. Routledge and K. Paul, 1950. pp.x,366, tables, diagrs. 25s. *(C) 244*

TRANSPORT

NOCK, O. S.
Scottish railways. Edinburgh, Nelson, 1950. pp.214, front. (col.), illus., pls. (some col.), tables. 18s. *(A) 245*

CHEMICAL TECHNOLOGY

BROWN, G. G., *and others.*
Unit operations. New York, Wiley, 1950. pp.xii,611. $7.50. *(C) 246*

FOOD TECHNOLOGY

McEWEN, W. W.
Microbiology for bakery and confectionery students. Churchill, 1950. pp.viii,104, plates, illus., tables, diagrs., bibliog. 8s. 6d. *(B) 247*

METALLURGY

COXON, W. F., *ed.*
Modern developments in metal finishing: a symposium of lectures. Leighton Buzzard, Arrow Press, [1950]. pp.87, illus., tables, diagrs. 5s. *(B) 248*

MANUFACTURES

Ceramics

EYLES, D.
Pottery in the ancient world. Col. illus. by G. Nicoll. Doulton & Co. Ltd., 1950. pp.46, illus. (some col.). 7s. 6d. *Ceramics in art and industry, no. 6.* *(A) 249*

MACEY, H. H.
Drying in the heavy clay industries. Foreword by A. T. Green. H.M.S.O., 1950. pp.vii,189, illus., plates, tables, diagrs., bibliog. 7s. 6d. *National Brick Advisory Council papers, no. 3.* *(C) 250*

RAIT, J. R.
Basic refractories; their chemistry and performance. Iliffe (for Iron and Steel), 1950. pp.408, charts, tables, diagrs., bibliog. 60s. *(C) 251*

Leather

WOODROFFE, D.
Leather manufacture. Northampton (23 The Drive), The Author, 1950. pp.208, illus. 15s. (limp), 22s. 6d. (cloth). *(B) 252*

Textiles

AMERICAN SOCIETY FOR TESTING MATERIALS
Standards on textile materials. Prepared by committee D-13. Philadelphia, The Society, 1950. pp.xii,572, illus. $4.50. *(C) 253*

BUILDING

GEDDES, S.
Building and public works administration, estimating and costing; for the use of civil engineers, surveyors and building contractors. 3rd ed. Newnes, 1950. pp.288, illus., charts, tables, diagrs. 30s. 'Revised and extended . . . plant and labour costs revised to accord with current rates.' *(B) 254*

HODGMAN, C. M.
The building society surveyor. Franey, [1950]. pp.103, tables. 9s. 6d. *(B) 255*

REECE, N. L.
Surveying and levelling for builders. Newnes, 1950. pp.viii,268, illus., plates, plans, charts, tables, diagrams. 35s. *(B) 256*

SCOTT, W. L., *and others*
Explanatory handbook on the British Standard code of practice for reinforced concrete. Concrete Publications Ltd., 1950. pp.viii,119, tables, diagrs. 9s. *(B) 257*

Specification, 1950
The standard reference book for architects, surveyors and municipal engineers. F. R. S. Yorke, *ed.* Architectural Press, 1950. pp.1085, illus., tables, diagrs. 21s. *(D) 258*

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TOWN AND COUNTRY PLANNING

ASSOCIATION FOR PLANNING AND REGIONAL RECONSTRUCTION
Town and country planning textbook: an indispensable book for town planners, architects, and students. Ed. by the Association, with an introduction by W. G. Holford. Architectural Press, 1950. pp.xx,613, illus., plates, maps, plans, tables, diagrs., bibliog. 42s. *(C) 259*

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ARCHITECTURE

BARMAN, C.
An introduction to railway architecture. Art and Technics, 1950. pp.104, plates. 15s. *Introductions to architecture.* *(B) 260*

BATSFORD, H., *comp.*
London; historic buildings, a series of illustrations. Introduction by H. Batsford. Batsford, 1950. pp.[62], front., illus. 7s. 6d. *(A) 261*

FEDDEN, R.
Crusader castles: a brief study in the military architecture of the Crusades. Art and Technics, 1950. pp.96, col. front., plates, tables, diagrs. 15s. *(B) 262*

WALDRAM, P. J.
A measuring diagram for daylight illumination, for the measurement, predetermination and representation of natural lighting. Batsford, 1950. pp.19, charts, diagrs. 5s. *(C) 263*

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PHOTOGRAPHY

MANNHEIM, L. A.
Straightforward print-making; how to turn your shots into fine pictures. Focal Press, 1951. pp.88, illus., tables, diagrs. 5s. *(A) 264*

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PREFACE

THE main object of this monthly list is to provide libraries with a list of selected recent scientific and technical books. The selection has been made by those with special knowledge of the subjects. It is not claimed that the list is exhaustive and it is hoped that the range of subjects will gradually be extended.

The aim of the Publications Committee has been to secure the help of individuals and specialist organizations who are, for their own purposes, making as complete a survey as possible of the literature in their own fields and who are able to assess the relative merits of new publications. This object has already been largely achieved : over seventy specialist organizations are generously helping Aslib in this way.

The notes in inverted commas are quoted from reviews or from the recommending experts ; those in square brackets are amplifications of the title compiled in the Aslib office from information supplied by the publishers.

Only books in the English language and, with few exceptions, those published within the previous six months, have been included. The limitation with regard to date, however, has been stretched sometimes in the case of books published abroad or those on very specialized subjects.

The place of publication is London unless otherwise stated.

The regular transactions of societies are not included. Nor are British Standard Specifications (except bound volumes). Any inquiry regarding these should be made direct to the B.S.I., 24/28 Victoria Street, London, S.W.1.

The works recommended are set out for convenience under broad main headings following the order of the Universal Decimal Classification and are further classified by the following symbols :

(*A*) Books suitable for general readers, or books treating the subject in an introductory, elementary or general manner.

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A title-page, classified table of contents, and index are issued with the last number of each volume.

The form of entry of references has been altered to comply with British Standard Specification 1629 : 1950.

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Introduction to Europe: a selective guide to background reading. Washington, Library of Congress, 1950. pp.v,201. $1. *(B) 266*

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Language and intelligence. Macmillan, 1951. pp.xv,192. 12s. 6d. *(C) 267*

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Technique of psychoanalytic therapy. A. & U., 1950. pp.vii,251, bibliog. 12s. 6d. *(C) 268*

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EDUCATION

HILL, M. E., *afterwards Highfield*
The education of backward children. Intro. by H. Boyes Watson. 2nd ed. Harrap, 1951. pp.176, illus., tables, diagrs., bibliog. 8s. 6d. *(B) 269*

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The teacher in school and society: an introduction to education. New York, World Book Co.; London, Harrap, 1950. pp.xi,530, illus., ports., facsims., tables, bibliog. $3.60 or 25s. *New world education series.* *(B) 270*

SCIENCE MASTERS' ASSOCIATION
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Psychology and its bearing on education. Methuen, 1950. pp.xvii,674, tables, diagrs. 18s. *(B) 273*

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Experimental designs. New York, Wiley; London, C. & H., 1950. pp.ix,454, tables, bibliog. $5.75 or 46s. *Wiley mathematical series, ed. by W. A. Shewhart.* *(C) 274*

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BOTANY

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Health and disease in the tropics. O.U.P., 1950. pp.x,200, illus. 15s. *(B) 285*

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[See *311*]

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Aeronautical

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POLLITT, C. A. H.

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Psychology of flight. Macmillan, 1951. pp.v,269, tables. 28s. *(C) 291*

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Foundations of structures. New York and London, McG.-H., 1950. pp.xii, 679. $7.50 or 64s. *McGraw-Hill civil engineering series.* *(C) 292*

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Electrical engineer's reference book, 1951: a comprehensive work of reference, providing a summary of the latest practice in all branches of electrical engineering. E. Molloy and others, eds. Newnes, 1951. Illus., plans, tables, diagrs., bibliog. 50s. Variously paged. *(D) 294*

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Irrigation principles and practices. 2nd ed. New York, Wiley; London, C. & H., 1950. pp.xii,405, illus., maps. $6 or 48s. *(C) 301*

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Economics of a fruit farm: a guide to the costs of establishment and operation of commercial apple orchards. O.U.P., 1951. pp.xi,103, tables, diagrs. 12s. 6d. *(B) 309*

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The manufacture of intermediates and dyes: an introduction to works practice. Constable, 1950. pp.[v],177, illus., plates, tables, diagrs. 15s. *(B) 318*

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Statistical digest, 1948 and 1949. H.M.S.O., 1950. pp.[ii],198, maps, tables. 7s. 6d. *(D) 319*

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A primer on breadmaking. O.U.P., 1951. pp.[8],156, illus., tables. 10s. 6d. *(B) 320*

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MANUFACTURES

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Methods of testing vulcanized rubber. B.S. 903: 1950. The Institution, 1950. pp.247. 21s. *(C) 325*

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The steel square; showing its application to roofing, timber framing and staircasing. 5th ed. Newnes, 1950. pp.88, illus., tables, diagrs. 5s. 'No changes or additions.' *(A) 331*

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Erratum: Vol. 16, number 3, p.21, publisher of item 219 should be O.U.P.

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We are returning to Ashorne Hill for the 26th Annual Conference. The provisional programme includes such subjects as the training and organization of staff, efficiency methods, and bibliographical and documentary projects in operation in the international field. A special feature of this Conference will be the provision of an opportunity for groups to discuss subjects in their particular fields of interest. There will be a dance following dinner on the Friday evening, and a block booking at the Shakespeare Memorial Theatre in Stratford will be made for Saturday evening.

* * *

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PREFACE

THE main object of this monthly list is to provide libraries with a list of selected recent scientific and technical books. The selection has been made by those with special knowledge of the subjects. It is not claimed that the list is exhaustive and it is hoped that the range of subjects will gradually be extended.

The aim of the Publications Committee has been to secure the help of individuals and specialist organizations who are, for their own purposes, making as complete a survey as possible of the literature in their own fields and who are able to assess the relative merits of new publications. This object has already been largely achieved : over seventy specialist organizations are generously helping Aslib in this way.

The notes in inverted commas are quoted from reviews or from the recommending experts ; those in square brackets are amplifications of the title compiled in the Aslib office from information supplied by the publishers.

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The works recommended are set out for convenience under broad main headings following the order of the Universal Decimal Classification and are further classified by the following symbols :

(*A*) Books suitable for general readers, or books treating the subject in an introductory, elementary or general manner.

(*B*) Books of an intermediate degree of technicality or suitable as textbooks for students.

(*C*) Books of an advanced or specially technical character.

(*D*) Directories, dictionaries, handbooks, lists and catalogues, encyclopædias, year-books, and similar publications.

A title-page, classified table of contents, and index are issued with the last number of each volume.

The form of entry of references has been altered to comply with British Standard Specification 1629 : 1950

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DINGLE, H., *ed.*
A century of science. Hutchinson, 1951. pp.ix,339, illus., plate, diagrs., tables. 15s. *(A) 335*

JEANS, *Sir* J.
The growth of physical science. 2nd ed. C.U.P., 1951. pp.x,364, front., plates, facsims., diagrs. 15s. *(A) 336*

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RANGANATHAN, S. R.
Library catalogue fundamentals and procedure. Madras, Library Assn., 1950. pp.463, tables. 30s. *Madras Library Association publication series, No. 15.* *(B) 337*

STEWART, J. D., *ed.*
The reference librarian in university, municipal and specialized libraries. Grafton, 1951. pp.288, tables, diagrs., bibliog. 25s. *(B) 338*

PHILOSOPHY

FRANK, P.
Relativity; a richer truth. Foreword by A. Einstein. Cape, 1951. pp.124, bibliog. 7s. 6d. *(A) 339*

INGE, W. R., *and others, eds.*
Radhakrishnan; comparative studies in philosophy presented in honour of his sixtieth birthday. A. & U., 1951. pp.408, front. (port.), bibliog. 25s. *(C) 340*

LODGE, R. C.
Applied philosophy. Routledge, 1951. pp.xi,243. 14s. *(A) 341*

SOCIAL SCIENCES

CHURCH, R. J. Harrison
Modern colonization. Hutchinson, 1951. pp.165, maps, tables, bibliog. 7s. 6d. *(B) 342*

MANNHEIM, K.
Freedom, power and democratic planning. Ed. by H. Gerth and E. K. Bramstedt. Routledge, 1951. pp.xxiv,384, table. 25s. *International library of sociology and social reconstruction, ed. by W. H. J. Sprott. (C) 343*

ECONOMICS

EASTHAM, J. K.
An introduction to economic analysis. English Universities Press, 1950. pp.vii,392, tables, diagrs., bibliog. 15s. *(B) 344*

SMITH, G. H., *ed.*
Conservation of natural resources. New York, Wiley; London, C. & H., 1950. pp.xii,552, illus., maps, tables, diagrs., bibliog. $6 or 48s. *(C) 345*

EDUCATION

EDUCATIONAL FOUNDATION FOR VISUAL AIDS
Visual aids, films and filmstrips. Part II: Geography for secondary schools. Revised and enlarged. Educational Foundation for Visual Aids, 1951. pp.vii,200. 3s. *(B) 346*

MANDER, J.
Classroom teaching. Newnes Educational Publ. Co., 1950. pp.168, tables. 10s. 6d. *(B) 347*

MATHEMATICS

GEARY, A., *and others*
Advanced mathematics for technical students. Part 2. Longmans, 1950. pp.ix,422. $3.75. *(B) 348*

LITTLEWOOD, D. E.
A university algebra. Heinemann, 1950. pp.viii,292. 21s. *(B) 349*

PAGE, A.
Trigonometry. University of London Press, 1951. pp.viii,276, illus., tables, diagrs. 18s. *(B) 350*

SIDDONS, A. W., *and others*
A new calculus. C.U.P., 1950 and 1951. 2 vols., pp.[3],112, and [8],258, tables, diagrs. 5s. and 10s. 6d. *(B) 351*

ASTRONOMY

SMART, W. M.
The origin of the earth. C.U.P., 1951. pp.viii,239, illus., plates, tables, diagrs. 12s. 6d. *(A) 352*

STRUVE, O.
Stellar evolution; an exploration from the observatory. Princeton, New Jersey, University Press; London, O.U.P., 1950. pp.xiv,266, front., plates (including ports.), tables, diagrs. $4 or 25s. *(C) 353*

PHYSICS

COSSLETT, V. E., *ed.*
Bibliography of electron microscopy. Edward Arnold (for Inst. of Physics), 1950. pp.350. 40s. *(D) 354*

NOAKES, G. R.
Textbook of general physics: an introduction to mechanics, properties of matter and wave motion. Macmillan, 1950. pp.viii,415. 10s. 6d. *(B) 355*

STEPHENS, R. W. B., *and* BATE, A. E.
Wave motion and sound. New York, Longmans; London, Edward Arnold, 1950. pp.viii,448. $9 or 45s. *(C) 356*

CHEMISTRY

BLAKE, G. G.
Conductimetric analysis at radio-frequency; a new technique for titration, including a chapter on moisture meters. Foreword by O. U. Vonwiller. C. & H., 1950. pp.xv,109, illus., tables, diagrs., bibliog. 15s. *(C) 357*

DYSON, G. M.
Manual of organic chemistry for advanced students. Vol. 1: Compounds of carbon, hydrogen, oxygen and the halogens. L.G., 1950. pp.xiii,984. $12.50. *(C) 358*

HERZBERG, G.
Molecular spectra and molecular structure. Vol. 1: Spectra of diatomic molecules. 2nd ed. New York, Van Nostrand; London, Macmillan, 1950. pp.xv,658. $9.75 or 73s. 6d. *(D) 359*

ROSSINI, F. D.
Chemical thermodynamics. New York, Wiley. 1950. pp.xix,514. $6. *(C) 360*

SIMONS, J. H.
Fluorine chemistry. Vol. 1. New York, Academic Press, 1950. pp.xviii,615. $13.50. *(C) 361*

TIMMERMANS, J.
Physicochemical constants of pure organic compounds. New York, Elsevier; London, C. & H., 1950. pp.viii,693. $12.50 or 95s. *(D) 362*

WELLS, A. F.
Structural inorganic chemistry. 2nd ed. O.U.P., 1950. pp.xix,727, illus., tables, diagrs. 35s. *(C) 363*

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GEOLOGY

HIMUS, G. W., *and* SWEETING, G. S.
Elements of field geology. University Tutorial Press, 1951. pp.viii,268, illus., maps, tables, diagrs., bibliog. 12s. 6d. *(B) 364*

KUENEN, P. H.
Marine geology. New York, Wiley, 1950. pp.x,568, illus. $7.50. *(C) 365*

BIOCHEMISTRY

MITCHELL, P. H.
Textbook of biochemistry. 2nd ed. New York, McG.-H., 1950. pp.xvii,695, illus., tables, diagrs., bibliog. $6. *(B) 366*

BIOLOGY

ABERCROMBIE, M., *and others*
A dictionary of biology. Harmondsworth, Middlesex, Penguin Books, 1951. pp.246. illus., diagrs. 2s. *Penguin reference books. No. R3.* *(D) 367*

BACON, J. S. D.
The science of heredity. Watts, 1951. pp viii,192, tables, diagrs. 3s. 6d. *Thinker's library, No. 139.* (*A*) *368*

GOODEY, T.
Soil and freshwater nematodes: a monograph. Methuen, 1951. pp.xxvi,390, illus., tables, diagrs., bibliog. 45s. (*C*) *369*

KELLEY, A. P.
Mycotrophy in plants: lectures on the biology of mycorrhizae and related structures. Waltham, Massachusetts, Chronica Botanica Co., 1950. pp.xiv,223, illus. $4.50. *New series of plant science books, vol. 22.* (*C*) *370*

BOTANY

BESSEY, E. A.
Morphology and taxonomy of fungi. 2nd ed. Philadelphia, Blakiston; London, Constable, 1951. pp.xiii,791, illus., diagrs., bibliog. S7 or 50s. (*C*) *371*

FINAN, J. J.
Maize in the great herbals. Waltham, Massachusetts, Chronica Botanica Co., 1950. pp.xiv,149–191. $3. (*A*) *372*

LUNDEGARDH, H.
Leaf analysis. Translated by R. L. Mitchell. Hilger and Watts, 1951. pp.viii,176, plates, tables, diagrs., bibliog. 22s. 6d. (*C*) *373*

SMITH, K. M.
Recent advances in the study of plant viruses. 2nd ed. Churchill, 1951. pp.viii,300, illus., plates, tables, diagrs., bibliog. 22s. 6d. 'Previous ed. 1933.' (*B*) *374*

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ZOOLOGY

GROVES, J. R.
A synopsis of the world literature on the fruit tree red spider mite Metatetranychus Ulmi (C. L. Koch, 1835) and its predators, with a brief review of the problem by A. M. Massee. Commonwealth Institute of Entomology, 1951. pp.180. 20s. (*C*) *375*

BRADLEY, O. C.
The structure of the fowl. 3rd ed. revised by T. Grahame. Edinburgh, O. & B., 1950. pp.xii,128, illus., plates, diagrs. (some col.). 15s. (*C*) *376*

NICHOLSON, E. M.
Birds and men; the bird life of British towns, villages, gardens and farmland. Collins, 1951. pp.xvi,256, plates (some col.), tables, bibliog. 21s. *New naturalist series.* (*A*) *377*

ROSE, W.
Reptiles and amphibians of Southern Africa. Cape Town, Maskew Miller, 1950. pp.378. 30s. (*B*) *378*

ENGINEERING

Molesworth's handbook of engineering formulae and data
Molesworth's handbook of engineering formulae and data. 4th ed. by A. P. Thurston. Spon, 1951. pp.xi,1672, illus., charts, tables, diagrs. 32s. 6d. 'Increased size and altered format . . . continues to fulfil its purpose excellently.' *(D) 379*

AERONAUTICAL

CASAMASSA, J. V., *ed.*
Jet aircraft power systems; principles and maintenance. McG.-H., 1950. pp.x,338, illus., tables, diagrs., bibliog. 47s. *(C) 380*

POPE, A.
Aerodynamics of supersonic flight: an introduction. New York, Pitman, 1950. pp.xi,184, illus., diagrs. $4. *Pitman aeronautical publications, aeronautical engineering series.* *(B) 381*

ELECTRICAL

ATKINSON, A. D. S.
Modern fluorescent lighting; dealing with the principles and practice of fluorescent lighting for electrical engineers and architects. Newnes, 1951. pp.159, illus., tables, diagrs., bibliog. 15s. *(B) 382*

MECHANICAL

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MILITARY

CORNER, J.
Theory of the interior ballistics of guns. New York, Wiley; London, C. & H., 1950. pp.xiii,443. $8 or 64s. *(C) 383*

AGRICULTURE

CULPIN, C.
Farm mechanization; costs and methods. Lockwood, 1951. pp.ix,147, plates, tables, diagrs. 10s. 6d. *Agricultural and horticultural series.* *(B) 384*

Farm mechanization directory
Farm mechanization directory. Temple Press, 1951. pp.ix,332, illus., tables, bibliog. 6s. *(D) 385*

KENDALL, R. G.
Land drainage. Faber, 1950. pp.133, illus., plates. 12s. 6d. *(B) 386*

CROPS

HUNTER, H.
Crop varieties; varieties of cereals, flax, potatoes, beans and field peas. Spon (for Farmer and Stockbreeder Publications), 1951. pp.xiv,224, plates, tables, bibliog. 21s. *Agricultural series, ed. by H. G. Sanders.* *(B) 387*

WHEELER, W. A.
Forage and pasture crops: a handbook of information about grasses and legumes grown for forage in the United States. Prepared under the auspices of the Field Seed Institute of North America, with the co-operation of the United States Department of Agriculture and State Agricultural colleges and experimental stations. New York, Van Nostrand; London, Macmillan, 1950. pp.xi,752, illus., maps, tables, diagrs., bibliog. 60s. *(B) 388*

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HORTICULTURE

HADFIELD, M., *ed.*
The gardener's companion. Dent, 1950. pp.xvi,624, col. front., illus., diagrs., bibliog. 10s. 6d. *(A) 389*

PRINTING

GROESBECK, H. A.
Primer of engraving and printing. New York, Colton Press Inc., 1950. pp.174. $2.50. *(A) 390*

TARR, J. C.
A book of alphabets in common use to-day for writing, lettering and printing. Pitman, 1951. pp.40, illus. 3s. 6d. *(A) 391*

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INDUSTRIAL ORGANIZATION

DEVONS, E.
Planning in practice: essays in aircraft planning in wartime. C.U.P., 1951. pp.viii,231. 15s. *(B) 392*

TRANSPORT

DE MARÉ, E.
The canals of England. Foreword by A. P. Herbert. Architectural Press, 1950. pp.124, plates, illus. 18s. *(B) 393*

ROLT, L. T. C.
The inland waterways of England. New York, Macmillan; London, A. & U., 1950. pp.222, front., illus., map. $5 or 21s. *(B) 394*

CHEMICAL TECHNOLOGY

LEE, J. A.
Materials of construction for chemical process industries. McG.-H., 1950. pp.vii,468, illus., tables, diagrs. 55s. 6d. *McGraw-Hill chemical engineering series.* *(C) 395*

ROOT, H. H.
Beeswax; its properties, production and applications. New York, Chemical Publ. Co., 1951. pp.v,154. $4.75 *(B) 396*

FUEL TECHNOLOGY

GUMZ, W.
Gas producers and blast furnaces; theory and methods of calculations. New York, Wiley; London, C. & H., 1950. pp.xiii,316. $7 or 56s. *(C) 397*

ATUM MEYER, E.
White mineral oil and petrolatum. New York, Chemical Publishing Co., 1950. pp.vi,135. $4.75. *(C) 398*

PRATT, W. E., *and* GOOD, D., *eds.*
World geography of petroleum. Princeton, New Jersey, University Press, 1950. pp.xvii,464, illus., maps. $7.50. *American Geographical Society publication No. 31.* *(C) 399*

METALLURGY

AMERICAN SOCIETY FOR TESTING MATERIALS
A.S.T.M. methods for chemical analysis of metals, 1950. Philadelphia, Pennsylvania, The Society, 1950. pp.x,476. $6.50 ($4.50 to A.S.T.M. members). *(C) 400*

CORDERO, H. G., *ed.*
World's non-ferrous smelters and refineries. 4th ed. Quin Press, 1950. pp.318. 25s. *(D) 401*

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MANUFACTURES

Paper

STEFFENS, R. N.
Engraved stationery handbook. New York, Cronite Co., 1950. pp.430. $10. *(B) 402*

Textiles

ROBINSON, A. T. C.
Rayon fabric construction. Foreword by E. W. Goodale. Skinner, 1951. pp.vi,180, illus. (some col.), tables. 25s. *(C) 403*

Watchmaking

SELWYN, A., *ed.*
Jewellers' and watchmakers' pocket book. Heywood, 1951. pp.503, illus., tables, diagrs. 15s. *(D) 404*

Wood

MALLINSON, R. F. A., *and* GRUGEON, R.
Timber trade practice. Cleaver-Hume, 1950. pp.viii,256, illus., maps. 15s. *(B) 405*

WOOD, A. D., *and* LINN, T. G.
Plywoods; their development, manufacture and application. 2nd ed. Johnston, 1950. pp.xvi,547, front., illus. 40s. *(C) 406*

BUILDING

COMBER, A. W.
Composition flooring and floorlaying. Griffin, 1950. pp.[10],118, front., illus., tables, diagrs. 8s. 6d. *Griffin's industrial textbook series, No. 4.* (*B*) *407*

HANDISYDE, C. C.
Building materials; science and practice. Foreword by A. H. Moberly. Architectural Press, 1950. pp.336, illus., plates, tables, bibliog. 25s. (*B*) *408*

ARCHITECTURE

DEAN, C. G. T.
The Royal Hospital, Chelsea. Hutchinson, 1950. pp.328, plates, illus. 21s. (*A*) *409*

DINSMOOR, W. B.
The architecture of ancient Greece: an account of its historic development. Based on the first part of 'The architecture of Greece and Rome,' by W. J. Anderson and R. P. Spiers. 3rd ed. Batsford, 1950. pp.xxiv,424, illus., plates, maps, plans, tables, diagrs., bibliog. 30s. (*A*) *410*

JOURDAIN, M.
English interior decoration 1500 to 1830: a study in the development of design. Batsford, 1950. pp.xii,84, illus. 66s. (*A*) *411*

TURNOR, R.
Nineteenth-century architecture in Britain. Batsford, 1950. pp.x,118, front., illus., plates. 21s. *British art and building series.* (*A*) *412*

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BOMBACK, R. H.
Cine data book. Fountain Press, 1950. pp.x,286, illus., tables, diagrs. 21s. (*D*) *413*

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L.G. : Longmans, Green
McG.-H. : McGraw-Hill
O. & B. : Oliver and Boyd
O.U.P. : Oxford University Press

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PREFACE

THE main object of this monthly list is to provide libraries with a list of selected recent scientific and technical books. The selection has been made by those with special knowledge of the subjects. It is not claimed that the list is exhaustive and it is hoped that the range of subjects will gradually be extended.

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Volume 16 *Number 6* *June 1951*

SCIENCE IN GENERAL

CALDER, R.
Profile of science. A. & U., 1951. pp.327, bibliog. 16s. (*A*) *414*

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PSYCHOLOGY

CANTRIL, H.
The why of man's experience. New York and London, Macmillan, 1950. pp.xiii,198. $2.75 or 20s. (*A*) *415*

FRIEDMAN, O.
Introduction to social psychology. Sylvan Press, 1950. pp.220. 10s. 6d. (*A*) *416*

GOULDNED, A. W.
Studies in leadership; leadership and democratic action. New York, Harper Bros., 1950. pp.xvi,736. $5. *Harper's psychological series.* (*C*) *417*

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SOCIAL SCIENCES

COX, P. R.
Demography. C.U.P. (for the Institute and Faculty of Actuaries), 1950. pp.xii,326, tables, diagrs. 20s. (*C*) *418*

GRAHAM, M.
Human needs. Cresset Press, 1951. pp.252, bibliog. 15s. (*C*) *419*

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ECONOMICS

CLARK, C.
The conditions of economic progress. 2nd ed. Macmillan, 1951. pp.xv,584, tables. 50s. (*C*) *420*

SCHURR, S. H., *and* MARSCHAK, J.
Economic aspects of atomic power; an exploratory study. Princeton University Press (for Cowles Commission for Research in Economics), 1950. pp.xxvi,289, maps. $6. (*C*) *421*

EDUCATION

CASWELL, H. L., *and* FOSHAY, A. W.
Education in the elementary school. 2nd ed. New York, American Book Co., 1950. pp.xvii,406. $3.25. *American education series.* (*B*) *422*

DOBINSON, C. H., *ed.*
Education in a changing world: a symposium. O.U.P., 1951. pp.viii,145. 12s. 6d. (*A*) *423*

NATIONAL FOUNDATION FOR EDUCATIONAL RESEARCH IN ENGLAND AND WALES
A list of researches in education and educational psychology presented for higher degrees in the universities of the United Kingdom, Northern Ireland and the Irish Republic, from 1918–1948, classified to a Dewey modification by A. M. Blackwell. Foreword by Sir F. Clarke. Newnes (for the Foundation), 1951. pp.173. 21s. *National Foundation for Educational Research in England and Wales, publication No. 1.* (*D*) *424*

Schools, 1951
Schools, 1951. 28th ed. Truman and Knightley [1951]. pp.739. 6s. (*D*) *425*

DICTIONARIES

DE VRIES, L.
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Errata: Vol. 16, number 3, page 22, references under Veterinary Science should be 215, 221.

Vol. 16, number 1, page 5, the price of the 'Encylopaedia of Radio and Television' is 16s.

PUBLISHERS

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H.M.S.O. : His Majesty's Stationery Office
L.G. : Longmans, Green
McG.-H. : McGraw-Hill
O. & B. : Oliver and Boyd
O.U.P. : Oxford University Press

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PREFACE

THE main object of this monthly list is to provide libraries with a list of selected recent scientific and technical books. The selection has been made by those with special knowledge of the subjects. It is not claimed that the list is exhaustive and it is hoped that the range of subjects will gradually be extended.

The aim of the Publications Committee has been to secure the help of individuals and specialist organizations who are, for their own purposes, making as complete a survey as possible of the literature in their own fields and who are able to assess the relative merits of new publications. This object has already been largely achieved : over seventy specialist organizations are generously helping Aslib in this way.

The notes in inverted commas are quoted from reviews or from the recommending experts ; those in square brackets are amplifications of the title compiled in the Aslib office from information supplied by the publishers.

Only books in the English language and, with few exceptions, those published within the previous six months have been included. The limitation with regard to date, however, has been stretched sometimes in the case of books published abroad or those on very specialized subjects.

The place of publication is London unless otherwise stated.

The regular transactions of societies are not included. Nor are British Standard Specifications (except bound volumes). Any inquiry regarding these should be made direct to the B.S.I., 24/28 Victoria Street, London, S.W.1.

The works recommended are set out for convenience under broad main headings following the order of the Universal Decimal Classification and are further classified by the following symbols :

(*A*) Books suitable for general readers, or books treating the subject in an introductory, elementary or general manner.

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(*C*) Books of an advanced or specially technical character.

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The form of entry of references has been altered to comply with British Standard Specification 1629 : 1950

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BRONOWSKI, J.
The common sense of science. Heinemann, 1951. pp.[iv],160. 8s. 6d.
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HEATH, A. E., *ed.*
Scientific thought in the twentieth century : an authoritative account of fifty years' progress in science. Watts, 1951. pp.xv,387, tables, diagrs. 42s.
(A) 495

Scientific and learned societies of Great Britain
Scientific and learned societies of Great Britain : a handbook compiled from official sources. [Ed. by The British Council] 57th ed. A. & U., 1951. pp.227, charts. 30s. *(D) 496*

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A guide to the records in the Corporation of London Records Office and the Guildhall Library Muniment Room. English Universities Press, 1951. pp.203, front., plates (facsims.). 20s. *(D) 497*

LEWIS, H. K., & Co. Ltd.
Catalogue of Lewis's medical, scientific and technical lending library. New ed. revised to December 31st, 1949. H. K. Lewis, 1951. pp.xii,1152. 17s. 6d.
(D) 498

Ulrich's periodicals directory
Ulrich's periodicals directory : a classified guide to a selected list of current periodicals, foreign and domestic. 6th ed. by E. C. Graves, consulting editor, C. F. Ulrich. New York, Bowker, 1951. pp.x,534. $17.50. *(B) 499*

[See also *539, 577*]

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Decimal classification. Standard (15th) ed. New York, Forest Press, 1951. pp.lv,661. $16. *(D) 500*

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WALKER, K.
Venture with ideas. Cape, 1951. pp.192, front., port. 10s. 6d. *(B) 502*

PSYCHOLOGY

BRIERLY, M.
Trends in psycho-analysis. Hogarth Press and The Institute of Psycho-Analysis, 1951. pp.320, bibliog. 21s. *International psycho-analytical library, ed. by E. Jones, no. 39.* (*B*) *503*

FITZGERALD, O. W. S.
Personality and psychosis. Ballière, Tindall & Cox, 1951. pp.viii,134. 12s. 6d. (*B*) *504*

JONES, E.
Essays in applied psycho-analysis. Vol. 1, Miscellaneous essays. Hogarth Press and The Institute of Psycho-Analysis, 1951. pp.333. 21s. *International psycho-analytical library, ed. by E. Jones, no. 40.* (*B*) *505*

REES, J. R.
The health of the mind. 3rd ed. Faber, 1951. pp.208, diagrs., bibliog. 9s. 6d. (*A*) *506*

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SOCIAL SCIENCES

ABRAMS, M.
Social surveys and social action. Heinemann, 1951. pp.[iv],153, tables, bibliog. 8s. 6d. *Contemporary science books, ed. J. Bronowski.* (*B*) *507*

CHILDE, V. G.
Social evolution. Watts, 1951. pp.viii,184, table. 10s. 6d. (*B*) *508*

UNITED NATIONS EDUCATIONAL, SCIENTIFIC, AND CULTURAL ORGANIZATION
Contemporary political science : a survey of methods, research and teaching. Paris, UNESCO ; London, H.M.S.O., 1950. pp.714, bibliog. 25s. (*B*) *509*

WELFORD, A. T.
Skill and age ; an experimental approach. O.U.P. (for Nuffield Foundation), 1951. pp.x,161. 8s. 6d. (*C*) *510*

WIENER, N.
The human use of human beings ; cybernetics and society. New York, Houghton Mifflin ; London, Eyre and Spottiswoode, 1950. pp.viii,241, diagrs. $3 or 18s. (*B*) *511*

ECONOMICS

LUXEMBURG, R.
The accumulation of capital. Introduction by J. V. Robinson. Translated by A. F. Schwarzschild. Routledge and Kegan Paul, 1951. pp.476. 35s. *Rare masterpieces of philosophy and science.* (*C*) *512*

LYTHE, S. G. E.
British economic history since 1760. Pitman, 1951. pp.vii,219, bibliog. 15s. *Pitman's higher studies in commerce.* (*B*) *513*

EDUCATION

CLEUGH, M. F.
Psychology in the service of the school. Methuen, 1951. pp.vii,183. 7s. 6d. (*B*) *514*

DE SELINCOURT, A.
The schoolmaster. Lehmann, 1951. pp.167. 8s. 6d. (*A*) *515*

JARMAN, T. L.
Landmarks in the history of education ; English education as part of the European tradition. Cresset Press, 1951. pp.viii,323, bibliog. 18s. (*B*) *516*

WARR, E. B.
Social experience in the junior school. Methuen 1951. pp.ix,118, table, bibliog. 7s. 6d. *Contributions to modern education ed. by E. Lawrence.* (*A*) *517*

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Scientific Russian : a textbook for classes and self-study. New York and London, Interscience, 1950. pp.xxix,816, index. $7.50 or 60s. (*B*) *518*

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Report on interlingual scientific and technical dictionaries. Paris, UNESCO, 1951. pp.34, bibliog. 1s. 6d. (*D*) *519*

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General homogeneous co-ordinates in space of three dimensions. C.U.P., 1951. pp.xiv,169. 15s. (*C*) *521*

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L.G. : Longmans, Green
McG.-H. : McGraw-Hill
O. & B. : Oliver and Boyd
O.U.P. : Oxford University Press

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HOWARD, A. V.

Chambers's dictionary of scientists. Chambers, 1951. pp.vi, col. 500, front. (port.), ports. 12s. 6d. *(D) 579*

MORSE, P. M., *and* **KIMBALL, G. E.**

Methods of operations research. [2nd] revised ed. New York, Wiley; London, C. & H., 1951. pp.vii,158. $4 or 32s. *Technology Press publication.* *(C) 580*

UVAROV, E. B., *and* **CHAPMAN, D. R.**

Dictionary of science : definitions and explanations of terms used in chemistry, physics and elementary mathematics. Revised [2nd] ed. Harmondsworth, Middlesex, Penguin Books, 1951. pp.240, tables, diagrs. 2s. *(D) 581*

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Bibliography in an age of science. Foreword by R. B. Downs. Urbana, University of Illinois, 1951. pp.[5],90, illus., charts. $2.50. Contents : Bibliography in an age of science, by L. N. Ridenour.—Machines and the bibliographical problems of the twentieth century, by R. R. Shaw.—Storage, processing and communication of information, by A. G. Hill. *(C) 582*

LIBRARIANSHIP

RANGANATHAN, S. R.

Classification and communication. Delhi, University of Delhi ; London, Blunt, 1951. pp.291. 25s. *(C) 583*

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PSYCHOLOGY

JONES, E.

Essays in applied psycho-analysis. Vol. 2, Essays in folklore, anthropology and religion. Hogarth Press, 1951. pp.[v],413, front. (plate), bibliogs. 21s. *The international psycho-analytical library, ed. E. Jones, no. 41.* (*B*) *586*

LEWIN, B. D.

The psychoanalysis of elation. Hogarth Press, 1951. pp.200, bibliog. 15s. (*C*) *587*

ECONOMICS

CHESTER, D. N.

The nationalized industries; an analysis of the statutory provisions. 2nd ed. A. & U. (for Institute of Public Administration), 1951. pp.93, tables, bibliog. 7s. 6d. (*A*) *588*

POUNDS, N. J. G.

An introduction to economic geography. Murray, 1951. pp.viii,266, maps, tables, diagrs., bibliog. 10s. 6d. (*B*) *589*

EDUCATION

Girls' school year book

Girls' school year book: public schools, 195-; the official book of reference of the Association of Headmistresses. Black, 1951. pp.lv,635, illus. 12s. 6d. (*D*) *590*

HAPPOLD, F. C.

The English subject synthesis; its theory and practice. Christophers, 1951. pp.125, illus., diagr. 6s. (*A*) *591*

TAYLOR, H., *ed.*

Essays in teaching. New York, Harper, 195-. pp.ix,239. $3. (*A*) *592*

MATHEMATICS

GASSON, J. D. M.

Mathematics for technical students. C.U.P., 1951. 2v., illus., tables, diagrs. 15s. each. (*B*) *593*

NEVILLE, E. H.

Jacobian elliptic functions. 2nd ed. O.U.P., 1951. pp.xvi,345. 30s. 'The new edition contains a chapter on elliptic integrals of the third kind.' (*C*) *594*

TITCHMARSH, E. C.

The theory of the Riemann-Zeta function. O.U.P., 1951. pp.346, bibliog. 40s. (*C*) *595*

TRANTER, C. J.

Integral transforms in mathematical physics. Methuen, 1951. pp.ix,118, tables, diagrs., bibliog. 6s. *Methuen's monographs on physical subjects, ed. B. L. Worsnop.* (*B*) *596*

ASTRONOMY

SINGER, D. W.

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BIRKHOFF, G.

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New atoms; progress and some memories: a collection of papers ed. by W. Gaade. New York, Elsevier; London, Cleaver-Hume, 1950. pp.184, illus. $1.75 or 12s. 6d. *(A) 599*

SMART, E. H.

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ANTHROPOLOGY

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Social anthropology. Cohen and West, 1951. pp.vii,134, bibliog. 8s. 6d. *(A) 603*

METEOROLOGY

GEIGER, R.

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Chemical activities of bacteria. 3rd ed. London University Tutorial Press, 1951. pp.213, front., tables, diagrs., bibliog. 9s. 6d. 'There is the addition of an account of recent work on the genetics of biochemical activities of micro-organisms.' *(B) 605*

GEORGE, T. Neville

Evolution in outline. Watts, 1951. pp.126, map, tables, diagrs. 1s. *Thrift books, no. 1.* (*A*) *606*

GLASCOCK, R.

Labelled atoms: the use of radioactive and stable isotopes in biology and medicine. Drawings by D. E. Jones. Sigma Books, 1951. pp.227, illus., plates, charts, tables, diagrs., bibliog. 10s. 6d. *Sigma introduction to science, no. 18.* (*C*) *607*

HURST, R.

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WHYTE, A. Gowans

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The vitamin B complex. C. & H., 1951. pp.xi,688, bibliog. 60s. (*C*) *610*

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Zoogeography of the land and inland waters. Sidgwick and Jackson, 1951. pp.viii,208, illus., maps, bibliog. 30s. *Textbooks of animal biology, ed. H. Munro Fox.* (*B*) *614*

PITT, F.

Nature through the year. Macmillan, 1951. pp.vii,300, illus. 18s. (*A*) *615*

VETERINARY SCIENCE

BARRON, N.

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ENGINEERING

GILLETT, H. W.

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HEDRICK, U. P.
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Errata. Vol. 16, number 6, page 46, item 445, Colonial Geological Survey publication should be classified under Mining.

Vol. 16, number 6, page 47, item 464, the publisher of Coal Preparation, ed. by D. R. Mitchell, should be the American Institute of Mining and Metallurgical Engineers.

PUBLISHERS

The following abbreviations are used in the *Aslib Book-List*.

A. & U. : Allen & Unwin
C. & H. : Chapman and Hall
C.U.P. : Cambridge University Press
H.M.S.O. : His Majesty's Stationery Office
L.G. : Longmans, Green
McG.-H. : McGraw-Hill
O. & B. : Oliver and Boyd
O.U.P. : Oxford University Press

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SEPTEMBER 1951
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PREFACE

THE main object of this monthly list is to provide libraries with a list of selected recent scientific and technical books. The selection has been made by those with special knowledge of the subjects. It is not claimed that the list is exhaustive and it is hoped that the range of subjects will gradually be extended.

The aim of the Publications Committee has been to secure the help of individuals and specialist organizations who are, for their own purposes, making as complete a survey as possible of the literature in their own fields and who are able to assess the relative merits of new publications. This object has already been largely achieved : over seventy specialist organizations are generously helping Aslib in this way.

The notes in inverted commas are quoted from reviews or from the recommending experts ; those in square brackets are amplifications of the title compiled in the Aslib office from information supplied by the publishers.

Only books in the English language and, with few exceptions, those published within the previous six months, have been included. The limitation with regard to date, however, has been stretched sometimes in the case of books published abroad or those on very specialized subjects.

The place of publication is London unless otherwise stated.

The regular transactions of societies are not included. Nor are British Standard Specifications (except bound volumes). Any inquiry regarding these should be made direct to the B.S.I., 24/28 Victoria Street, London, S.W.1.

The works recommended are set out for convenience under broad main headings following the order of the Universal Decimal Classification and are further classified by the following symbols :

(*A*) Books suitable for general readers, or books treating the subject in an introductory, elementary or general manner.

(*B*) Books of an intermediate degree of technicality or suitable as textbooks for students.

(*C*) Books of an advanced or specially technical character.

(*D*) Directories, dictionaries, handbooks, lists and catalogues, encyclopædias, year-books, and similar publications.

A title-page, classified table of contents, and index are issued with the last number of each volume.

The form of entry of references has been altered to comply with British Standard Specification 1629 : 1950.

ASLIB BOOK-LIST

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SCIENCE IN GENERAL

FISHER, R. A.

The design of experiments. 6th ed. Edinburgh and London, O. & B., 1951. pp.xv,244, tables, bibliog. 12s. 6d. ' Little change '. *(B) 661*

FARRINGTON, B.

Francis Bacon ; philosopher of industrial science. Lawrence and Wishart, 1951. pp.[vii],198. 12s. 6d. *(A) 662*

[See also *674, 735*]

BIBLIOGRAPHIES

COLLISON, R. L.

Bibliographies, subject and national : a guide to their contents, arrangement and use. Foreword by F. L. Kent. Crosby Lockwood, 1951. pp.xii,172, charts. 18s. *(B) 663*

LIBRARIANSHIP

SPECIAL LIBRARIES ASSOCIATION

Transactions of the forty-first annual convention, Atlantic City, New Jersey, June 12-16, 1950. Eds. A. C. Mitchell and W. Y. Forwood. New York, The Association, 31, East Tenth Street, 1951. pp.[4],239, charts, tables, bibliog. $5. *(B) 664*

PSYCHOLOGY

MONEY-KYRLE, R. E.

Psychoanalysis and politics : a contribution to the psychology of politics and morals. Duckworth, 1951. pp.183. 9s. *Social science studies.* *(B) 665*

STOKES, A.

Smooth and rough. Faber, 1951. pp.84, plates. 15s. *(A) 666*

SOCIAL SCIENCES

CASSERLEY, J. V. L.

Morals and man in the social sciences. L.G., 1951. pp.ix,230. 12s. 6d. *(A) 667*

ECONOMICS

CONDLIFFE, J. B.

The commerce of nations. A. & U., 1951. pp.xi,884, illus., diagrs., bibliog. 36s. *(C) 668*

FIRTH, R.

Elements of social organization. Josiah Mason Lectures delivered at the University of Birmingham. Watts, 1951. pp.xi,257, front., plates, diagrs. 18s. *(A) 669*

HANSEN, A. H.

Business cycles and national income. New York, Norton, 1951. pp.xv,639. $6.75. *(C) 670*

MEADE, J. E.

The balance of payments. Issued under the auspices of the Royal Institute of International Affairs. O.U.P., 1951. pp.xvi,432, tables, diagrs. 30s. *Theory of international economic policy, v.1.* *(C) 671*

SILVERMAN, H. A.

Substance of economics for the student and the general reader. 13th ed. Pitman, 1950 [1951], pp.xvii,387, tables, diagrs. 18s. *(B) 672*

EDUCATION

Junior school schemes of work and organization

Junior school schemes of work and organization. Revised ed. Evans Brothers, 1951. pp.48, tables, diagrs., bibliog. 6s. 6d. *(B) 673*

RICHARDSON, J. S. *and* **CAHOON, G. P.**

Methods and material for teaching general and physical science. New York, McG.-H., 1951. pp.viii,485, illus. $4.50. *(B) 674*

WELLS, H.

Elementary science education in American public schools. New York, McG.-H., 1951. pp.ix,333, illus. $3.75. *(B) 675*

MATHEMATICS

BOROFSKY, S.

Elementary theory of equations. New York, Macmillan, 1950. pp 312. $4.25. *(B) 676*

ASTRONOMY

LEMAITRE, G.

The primeval atom : an essay on cosmogony. Translated by B. H. Korff and S. A. Korff, foreword by H. N. Russell. New York, Van Nostrand ; London, Macmillan, 1951. pp.ix,186. $3 or 22s. 6d. *(A) 677*

PHYSICS

BRIGGS, G. A.

Pianos, pianists and sonics. Bradford, Wharfedale Wireless Works, 1951. pp.192, illus., ports., charts, tables, diagrs. 10s. 6d. *(A) 678*

CHALMERS, T. W.

A short history of radio-activity. The Engineer, 1951. pp.78, illus., diagrs. 8s. 6d. *(B) 679*

INSTITUTE OF PHYSICS

Some aspects of fluid flow : being papers presented at a conference on fluid flow, organized by the Institute of Physics at Leamington Spa 1950, and the reports of the conference discussion groups. Arnold & Co., 1951. pp.viii,292, illus., tables, diagrs. 50s. *(C) 680*

PHYSICAL SOCIETY

Reports on progress in physics. Vol. XIV (1951). Ed. A. C. Stickland. Physical Society, 1951. pp.iv,412, illus., plates, charts, tables, diagrs., bibliogs. 50s. *(C) 681*

POLLARD, E. C., *and* DAVIDSON, W. L.

Applied nuclear physics. 2nd ed. New York, Wiley ; London, C. & H., 1951. pp.ix,352, tables, diagrs., bibliog. $5 or 40s. *(C) 682*

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Radiochemical studies : the fission products. Edited by C. D. Coryell, and N. Sugarman. New York and London, McG.-H., 1951. 3v. $18.50 or 157s. 6d. *National nuclear energy series, Manhattan Project Technical Section. Division 4.—Plutonium project record, vol. 9.* *(C) 683*

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FRITH, E. M., *and* TUCKETT, R. F.

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In the workshop. By Duplex [pseud.]. Percival Marshall, 1951. pp.[7],195, illus., tables, diagrs. 9s. 6d. *(B) 698*

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Design of machine elements. A. & U., 1951. pp.402, illus., tables, diagrs., bibliog. 25s. *(C) 699*

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Mechanics applied to vibrations and balancing. 2nd ed. C. & H., 1951. pp.xii,584, illus., plates, tables, diagrs. 50s. *(C) 700*

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Technology of the machine shop. L.G., 1951. pp.x,366, illus., plates, charts, tables, diagrs. 21s. *(B) 701*

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The Vaal River gold mines. The Author, Pinners Hall, Austin Friars, E.C.2, 1950. pp.31, plate (map), tables, diagrs. 10s. 6d. *(B) 704*

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Mining yearbook, 1951. Compiled by W. E. Skinner. Financial Times, 1951. pp.xviii,571, maps, tables. 30s. *(D) 706*

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Principles of air navigation. Methuen, 1951. pp.xiii,264, illus., maps, tables, diagrs. 25s. *(B) 708*

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Automobile efficiency; maintaining performance with electrical test equipment. Trader Publ. Co. (for Motor Trader), distributed by Iliffe, 1951. pp.116 illus., diagrs. 10s. 6d. *(B) 709*

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Farm business management. Revised [2nd] ed. by R. W. Gregory. Chicago and London, Lippincott, 1951. pp.xii,546, illus., maps, tables, diagrs., bibliogs. $3.50 or 28s. *Agriculture management series.* (*A*) *710*

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KING, F. C.

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Photo-engraving in relief: a textbook intended for the use of apprentices and others interested in the technique of photo-engraving. 3rd ed. Pitman, 1951. pp.x,325, illus. 25s. 'New ed. has introduced latest methods and included colour correcting by colour masking and the use of polyvinyl in place of fish glue as a resist for half-tone.' (*B*) *714*

INDUSTRIAL ORGANIZATION

CHISHOLM, A. J., *and others*

Action of cutting tools. Machinery Publishing Co., 1951. pp.88, illus., diagrs. 3s. 6d. *Machinery's yellow back series, no. 31.* (*B*) *715*

HUNT, F. W.

Your factory and the law. Seven Oaks Press Ltd., 1951. pp.x,156, tables. 15s. (*B*) *716*

MALLICK, R. W., *and* GAUDREAU, A. T.

Plant layout; planning and practice. New York, Wiley, 1951. pp.xii,391, illus. $7.50. (*C*) *717*

REDGRAVE, A.

Redgrave's factories, truck and shop acts. Eds. J. Thompson and H. R. Rogers. Supplement to the seventeenth ed. Butterworth, 1951. pp.xi,137, tables. 10s. (*B*) *718*

TRANSPORT

BRITISH TRANSPORT COMMISSION

Electrification of railways: report of a committee appointed by the Railway Executive and the London Transport Executive. British Transport Commission, 1951. pp.xii,94, maps (some col.), tables. 7s. 6d. (*B*) *719*

CHEMICAL TECHNOLOGY

NORDELL, E.

Water treatment for industrial and other uses. New York, Reinhold, 1951. pp.vii,525. $10. *(C) 720*

SHEPARD, H. H.

The chemistry and action of insecticides. New York, McG.-H., 1951. pp.vii,504, illus. $7. *(C) 721*

Fuel Technology

CAMPBELL, J. R.

Methods of analysis of fuels and oils. Ed. W. Gibb. Constable, 1951. pp.xii,215, illus., charts, tables, diagrs., bibliog. 21s. *(B) 722*

MEYER, E.

White mineral oil and petrolatum. New York, Chemical Publ. Co., 1951. pp.vi,135. $4.75. *(C) 723*

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Plastics

FLECK, E. R.

Plastics scientific and technological. 3rd ed. Temple Press, 1951. pp.xv,414, charts, tables, diagrs. 40s. *(B) 724*

Metallurgy

AMERICAN SOCIETY FOR METALS

Atom movements: a seminar on atom movements held during the Thirty-Second National Metal Congress and Exposition, Chicago, Oct. 1950, sponsored by the Society. Ohio, The Society, 1951. pp.240, illus. $5. *(C) 725*

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Die casting. New York and London, McG.-H., 1951. pp.vii,502, illus. $8 or 68s. *(C) 726*

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HUNT, A.

Textile design. 2nd ed. Studio Publications, 1951. pp.96, plates. 15s. *How to do it series, no. 15.* *(B) 730*

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GEDDES, S.

Estimating for building and civil engineering works; for the use of builders, public works contractors, architects, civil engineers and surveyors. Newnes, 1951. pp. 472, illus., charts, tables, diagrs. 63s. *(B) 732*

NOBLE, W.

The firing of common bricks. Foreword by A. T. Green. H.M.S.O., 1951. pp. viii,123, tables, diagrs. 7s. 6d. *National Brick Advisory Council papers, no. 4.* *(B) 733*

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LE FANU, W. R.

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COLEMAN, H. S., *ed.*

Laboratory design. Sponsored by the National Research Council, Committee on Design, Construction and Equipment of Laboratories. New York, Reinhold; London, C. & H., 1951. pp.ix,393, illus., diagrs. $12 or 96s. *(C) 735*

HOLDEN, C. H., *and* **HOLFORD, W. G.**

The city of London: a record of destruction and survival; the building development of the city, the damage suffered in the years 1940-1945, and the proposals for reconstruction as incorporated in the final report of the planning consultants C. H. Holden and W. G. Holford, presented in 1947 to the Court of Common Council, prepared under the directions of the Improvements and Town Planning Committee of the Corporation of London. Architectural Press (for the Corporation), 1951. pp.341, illus., plates, maps, plans, tables, diagrs. 25s. *(B) 736*

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Design for sanatoria. National Association for the Prevention of Tuberculosis, Architectural Committee, 1951. pp.124, plates, plans, diagrs. 12s. 6d. *(B) 737*

WILLIAMS-ELLIS, C.

Royal Festival Hall. Parrish, 1951. pp.96, front. (col.), illus. (some col.), diagrs. 30s. *(A) 738*

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BETHERS, R.

From eye to camera. Pitman, 1951. pp.viii,130, illus., diagrs. 15s. *(B) 739*

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Photographic accessories yearbook, 1950. St. Ives, Huntingdon, Matson's Publications, 1951. pp.262, illus., tables. 7s. 6d. *(D) 740*

Errata. Vol. 16, number 7, item 574, page 58, the publishers of Fundamental mechanisms of photographic sensitivity should be Butterworth.

Vol. 16, number 7, item 498, page 51, the price of H. K. Lewis's catalogue should be 35s.

Vol. 16, number 8, item 609, page 66, The Ladder of Life by A. Gowans Whyke, is issued in the Thrift Books series, not Thinker's Library.

PUBLISHERS

The following abbreviations are used in the *Aslib Book-List.*

A. & U. : Allen & Unwin
C. & H. : Chapman and Hall
C.U.P. : Cambridge University Press
H.M.S.O. : His Majesty's Stationery Office
L.G. : Longmans, Green
McG.-H. : McGraw-Hill
O. & B. : Oliver and Boyd
O.U.P. : Oxford University Press

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OCTOBER 1951
Nos. 741-821

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PREFACE

THE main object of this monthly list is to provide libraries with a list of selected recent scientific and technical books. The selection has been made by those with special knowledge of the subjects. It is not claimed that the list is exhaustive and it is hoped that the range of subjects will gradually be extended.

The aim of the Publications Committee has been to secure the help of individuals and specialist organizations who are, for their own purposes, making as complete a survey as possible of the literature in their own fields and who are able to assess the relative merits of new publications. This object has already been largely achieved : over seventy specialist organizations are generously helping Aslib in this way.

The notes in inverted commas are quoted from reviews or from the recommending experts ; those in square brackets are amplifications of the title compiled in the Aslib office from information supplied by the publishers.

Only books in the English language and, with few exceptions, those published within the previous six months, have been included. The limitation with regard to date, however, has been stretched sometimes in the case of books published abroad or those on very specialized subjects.

The place of publication is London unless otherwise stated.

The regular transactions of societies are not included. Nor are British Standard Specifications (except bound volumes). Any inquiry regarding these should be made direct to the B.S.I., 24/28 Victoria Street, London, S.W.1.

The works recommended are set out for convenience under broad main headings following the order of the Universal Decimal Classification and are further classified by the following symbols :

(*A*) Books suitable for general readers, or books treating the subject in an introductory, elementary or general manner.

(*B*) Books of an intermediate degree of technicality or suitable as textbooks for students.

(*C*) Books of an advanced or specially technical character.

(*D*) Directories, dictionaries, handbooks, lists and catalogues, encyclopædias, year-books, and similar publications.

A title-page, classified table of contents, and index are issued with the last number of each volume.

The form of entry of references has been altered to comply with British Standard Specification 1629 : 1950.

ASLIB BOOK-LIST

Volume 16 . Number 10. October 1951

GENERAL SCIENCE

History of science

The history of science: origins and results of the scientific revolution. Cohen and West Ltd., 1951. pp.184, illus., bibliog. 8s. 6d. *(A) 741*

SIMON, F. E.

The neglect of science: essays addressed to laymen. Oxford, Blackwell, 1951. pp.vi,138. 8s. 6d. *(A) 742*

UNITED STATES, International Science Policy Survey Group

Science and foreign relations; international flow of scientific and technological information. Washington, United States Government Printing Office, 1950. pp.viii,170, tables, diagrs. 70c. *Department of State publication, 3860.* *(B) 743*

WHITTAKER, *Sir* E.

Eddington's principle in the philosophy of science. The fifth Arthur Stanley Eddington memorial lecture. C.U.P., 1951. pp.v,35. 2s. 6d. *(B) 744*

WOLF, A.

A history of science, technology and philosophy in the sixteenth and seventeenth centuries. With the co-operation of Dr. F. Dannemann and A. Armitage. 2nd ed. prepared by D. McKie. A. & U., 1950 [1951]. pp.xxvii,692, front., illus., plates (incl. ports.), tables, diagrs., bibliog. 42s. *History of science library series, ed. by A. Wolf.* *(B) 745*

[See also *753*]

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DYSON, G. M.

A short guide to chemical literature. L.G., 1951. pp.v,144, tables, bibliog. 8s. 6d. *(D) 746*

United Nations Educational, Scientific and Cultural Organization

Subject list of Unesco documents, 1st January—31st December, 1950. Paris, Unesco; London, H.M.S.O., 1951. pp.79. 8s. 6d. *Publication no. 998.* *(D) 747*

United Nations Educational, Scientific and Cultural Organization

Handbook of National Commissions. Paris, Unesco; London, H.M.S.O., 1951. pp.285. 10s. *Publication no. 907.* *(D) 748*

[See also *770*]

LIBRARIANSHIP

ELLIOTT, C. A.
Library publicity and service. Grafton, 1951. pp.151, plates. 15s. *(B) 749*

LIBRARY ASSOCIATION
Proceedings, papers and summaries of discussions at the Edinburgh Conference, 5th–8th June, 1951. The Association, 1951. pp.97. 2s. 6d. *(B) 750*

SOUTH AFRICA, Council for Scientific and Industrial Research
Books are tools: the organization of small technical libraries for South African industry. By H. Mews. Pretoria, the Council, 1951. pp.28, plates. 2s. 6d. *(B) 751.*

SPECIAL LIBRARIES ASSOCIATION
Technical libraries; their organization and management. Ed. L. Jackson. New York, the Association, 1951. pp.viii,202, illus., diagrs. $6. *(B) 752*

PHILOSOPHY

REICHENBACH, H.
The rise of scientific philosophy. Berkeley, University of California Press; London, C.U.P., 1951. pp.xi,333. $3.75 or 28s. *(B) 753*

[See also *744, 745*]

PSYCHOLOGY

CHAMBERS, E. G.
Psychology and the industrial worker. C.U.P., 1951. pp.[10],190, bibliog. 10s. 6d. *(B) 754*

KATZ, D.
Gestalt psychology; its nature and significance. Translated by R. Tyson. Methuen, 1951. pp.x,175, illus., plates, tables, diagrs., bibliog. 12s. 6d. *Methuen's manuals of modern psychology, ed. by C. A. Mace, no. 2. (B) 755*

RYDER, T. A.
Dr. Ryder's psychology and you. Right Way Books, Kingswood, Surrey, 1951. pp.210, tables, bibliog. 6s. *(A) 756*

SOCIAL SCIENCES

POLANYI, M.
The logic of liberty; reflections and rejoinders. Routledge and Kegan Paul, 1951. pp.viii,206, table. 15s. *International library of sociology and social reconstruction, ed. by W. H. J. Sprott.* *(C) 757*

EDUCATION

Directory of modern secondary schools
Directory of modern secondary schools, England and Wales 1951; including junior secondary schools, Scotland, intermediate schools, Northern Ireland, and local education authorities. School Government Publishing Co., 1951. pp.183. 10s. 6d. *(D) 758*

JAMES, E. J. F.
Education and leadership Harrap, 1951. pp.112. 6s. *(A) 759*

Public and preparatory schools year book
Public and preparatory schools year book, 1951. The official book of reference of the Headmasters Conference and the Association of Preparatory Schools. Ed. by J. F. Burnet and L. W. Taylor. Black, 1951. pp.xxxiv,958, tables. 16s. *(D) 760*

SMITH, W. O. L.
Compulsory education in England. Paris, Unesco; London, H.M.S.O., 1951. pp.63, bibliog. 3s. *Studies on compulsory education, no. vi.* (*A*) *761*

MATHEMATICS

JENNINGS, J.
Mathematical solution of engineering problems. Spon, 1951. pp.208, tables, diagrs. 25s. *Spon's mechanical engineering, ed. by N. Tetlow.* (*C*) *762*

KELLS, L. M.
Calculus. 2nd ed. A. & U., 1951. pp.xii,508, front., illus., tables, diagrs. 28s. (*B*) *763*

SCHONTEN, J. A.
Tensor analysis for physicists. O.U.P., 1951. pp.x,275, plates, tables, diagrs., bibliog. 30s. (*C*) *764*

ASTRONOMY

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PHYSICS

GRIFFITHS, R.
Thermostats and temperature-regulating instruments. 3rd ed. Griffin, 1951. pp.vii,217, illus., tables, diagrs., bibliog. 20s. (*B*) *765*

HENISCH, H. K., *ed.*
Semi-conducting materials: proceedings of a conference on semi-conducting materials held at the University of Reading under the auspices of the International Union of Pure and Applied Physics in co-operation with the Royal Society. Butterworth, 1951. pp.281, illus., plates, tables, diagrs., bibliog. 40s. (*C*) *766*

WORSNOP, B. L., *and* FLINT, H. T.
Advanced practical physics for students. 9th ed. Methuen, 1951. pp.ix,754, illus., plates, tables, diagrs. 30s. (*C*) *767*

[See also *764*]

CHEMISTRY

AUDRIETH, L. F., *and* OGG, B. A.
Chemistry of hydrazine. New York, Wiley; London, C. & H., 1951. pp.xii,244, tables, diagrs., bibliog. $5 or 40s. (*C*) *768*

WAHLSTROM, E. E.
Optical crystallography. 2nd ed. New York, Wiley; London, C. & H., 1951. pp.vii,247, illus., tables, diagrs., bibliog. $4.50 or 36s. (*C*) *769*

[See also *746*]

GEOLOGY

PEARL, R. M.
Guide to geologic literature. New York and London, McG.-H., 1951. pp.xi,239, tables, bibliog. $3.65 or 32s. (*D*) *770*

[See also *806*]

BIOLOGY

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BOTANY

Annual review of plant physiology

Annual review of plant physiology. Vol. 2, 1951. Eds. D. I. Arnon and L. Machlis. California, Stanford University Press; London, H. K. Lewis, 1951. pp.[10],361, tables, diagrs., bibliog. $6 or 48s. *(D) 771*

BIFFEN, R.

The auricula: the story of the florist's flower. C.U.P., 1951. pp.164, illus., plates, bibliog. 15s. *(A) 772*

STILES, W.

Trace elements in plants and animals. 2nd ed. C.U.P., 1951. pp.xi,189, plates, tables, bibliog. 15s. *(B) 773*

SUMMERHAYES, V. S.

Wild orchids of Britain, with a key to the species. Coloured photos by R. Atkins and others. Collins, 1951. pp.xvii,366, plates (some col.), maps, bibliog. 21s. *New naturalist, no. 19.* *(A) 774*

ZOOLOGY

COLYER, C. N., *and* HAMMOND, C. O.

Flies of the British Isles. Warne, 1951. pp.383, front. (col.), plates (some col.), tables, diagrs., bibliog. 30s. *Wayside and woodland series.* *(A) 775*

RICHARDS, O. W.

Brachypterous Sphaeroceridae. British Museum (Natural History), 1951. pp.829–851, illus., table, bibliog. 5s. *Ruwenzori Expedition, 1934–35, entomological collections, vol. 2, no. 8.* *(C) 776*

SABROSKY, C. W.

Chloropidae. British Museum (Natural History), 1951. pp.711–828, illus. 15s. *Ruwenzori Expedition, 1934–35, entomological collections, vol. 2, no. 7.* *(C) 777*

VAN EMDEN, F. I.

Muscidae, C.: Scatophaginae, Anthomyiinae, Lispinae, Fanniinae and Phaoniinae. British Museum (Natural History), 1951. pp.710, illus., plates, tables. 45s. *Ruwenzori Expedition, 1934–35, entomological collections, vol. 2, no. 6.* *(C) 778*

WORTHINGTON-STUART, B.

Collecting and breeding butterflies and moths. Warne, 1951. pp.190, front. (col.), illus., diagrs., bibliog. 10s. 6d. *Wayside and woodland series.* *(A) 779*

ENGINEERING

CLARK, D. A. R.

Advanced strength of materials. Blackie, 1951. pp.[7],342, illus., tables, diagrs. 35s. *(C) 780*

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Mechanical

CHESTNUT, H., *and* MAYER, R. W.

Servomechanisms and regulating system design. Vol. 1. New York, Wiley; London, C. & H., 1951. pp.xiii,505, diagrs., bibliog. $7.75 or 62s. *General electric series.* *(C) 781*

FARRINGTON, G. H.

Fundamentals of automatic control. C. & H., 1951. pp.xii,285, illus., diagrs., bibliog. 30s. *(B) 782*

INGLIS, *Sir* C.

Applied mechanics for engineers. C.U.P., 1951. pp.xii,404, diagrs. 42s. *(C) 783*

MACMILLAN, R. H.

An introduction to the theory of control in mechanical engineering. C.U.P., 1951. pp.xiv,195, tables, diagrs., bibliog. 30s. *(C) 784*

PEATFIELD, A. E.

Engineering components and materials. English Universities Press, 1951. pp.240, illus., tables, diagrs. 6s. *Teach yourself books, mechanical engineering series, ed. by L. Cutts, vol. 2.* *(B) 785*

SIMONS, E. N.

Cutting-tool materials. Pitman, 1951. pp.xi,180, illus., tables, diagrs. 21s. *(B) 786*

Electrical

MOSES, G. L.

Electrical insulation; its application to shipboard electrical equipment. New York and London, McG.-H., 1951. pp.ix,259, front., illus., tables, diagrs., bibliog. $5.50 or 47s. *(C) 787*

Electrical Communications

WIRELESS WORLD

Radio valve data: characteristics of 2,000 valves and cathode-ray tubes. 2nd ed. Iliffe (for Wireless World), 1951. pp.79, tables, diagrs. 3s. 6d. *(D) 788*

Electronics

COSSLETT, V. E.

Practical electron microscopy. Butterworth, 1951. pp.xiii,294, illus., bibliog. 35s. *(C) 789*

Civil

TAYLOR, F. J.

Modern bridge construction: a treatise setting forth the elements of bridge design and illustrating modern methods of construction. Technical Press, Kingston Hill, Surrey, 1951. pp.xii,331, illus., tables, diagrs. 30s. *(C) 790*

INTERNAL COMBUSTION

SELLS, M. P.

The steam locomotive of to-day; its construction, operation and upkeep. 2nd ed. Locomotive Publishing Co., 1951. pp.[5],250, front., illus., plates (some col.), tables, diagrs 10s. *(B) 791*

MINING

Colliery year book

Colliery year book and coal trades directory, 1951. Cassier, 1951. pp.940, tables, bibliog. 30s. *(D) 792*

METCALFE, J. E.

A mining engineer's survey manual. Electrical Press Ltd. (for 'Mine and Quarry Engineering'), 195-. pp.x,341, front., illus., tables, diagrs. 30s. *(C) 793*

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AERONAUTICAL

HILTON, W. F.

High speed aerodynamics. Drawings by G. Berk. New York, L.G., 1951. pp.x,598, plates. $8.50. *(C) 794*

POPE, A.

Basic wing and airfoil theory. New York, McG.-H., 1951. pp.xviii,294, $5. *(B) 795*

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L.G. : Longmans, Green
McG.-H. : McGraw-Hill
O. & B. : Oliver and Boyd
O.U.P. : Oxford University Press

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PREFACE

THE main object of this monthly list is to provide libraries with a list of selected recent scientific and technical books. The selection has been made by those with special knowledge of the subjects. It is not claimed that the list is exhaustive and it is hoped that the range of subjects will gradually be extended.

The aim of the Publications Committee has been to secure the help of individuals and specialist organizations who are, for their own purposes, making as complete a survey as possible of the literature in their own fields and who are able to assess the relative merits of new publications. This object has already been largely achieved : over seventy specialist organizations are generously helping Aslib in this way.

The notes in inverted commas are quoted from reviews or from the recommending experts ; those in square brackets are amplifications of the title compiled in the Aslib office from information supplied by the publishers.

Only books in the English language and, with few exceptions, those published within the previous six months, have been included. The limitation with regard to date, however, has been stretched sometimes in the case of books published abroad or those on very specialized subjects.

The place of publication is London unless otherwise stated.

The regular transactions of societies are not included. Nor are British Standard Specifications (except bound volumes). Any inquiry regarding these should be made direct to the B.S.I., 24/28 Victoria Street, London, S.W.1.

The works recommended are set out for convenience under broad main headings following the order of the Universal Decimal Classification and are further classified by the following symbols :

(*A*) Books suitable for general readers, or books treating the subject in an introductory, elementary or general manner.

(*B*) Books of an intermediate degree of technicality or suitable as textbooks for students.

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A title-page, classified table of contents, and index are issued with the last number of each volume.

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LIBRARIANSHIP

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VETERINARY SCIENCE

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Ships for victory, a history of shipbuilding under the U.S. Maritime Commission in World War 2. Baltimore, John Hopkins Press; London, O.U.P., 1951. pp.xxii,881, plates, maps, tables, diagrs. $12.50 or 100s. *(B) 878*

AERONAUTICAL

DURHAM, F. B.

Aircraft jet powerplants. New York, Prentice-Hall, 1951. pp.ix,326, illus. $6.65. *Prentice-Hall aeronautical engineering series.* *(C) 879*

AGRICULTURE

ROSS, R. C.

An introduction to agricultural economics. New York and London, McG.-H., 1951. pp.vii,414, maps, tables, diagrs. $5 or 42s. 6d. *(B) 880*

WAITE, W. C., *and* TRELOGAN, H. C.

Agricultural market prices. 2nd ed. New York, Wiley; London C. & H., 1951. pp.xi,440, maps, tables, diagrs. 42s. '1st ed. 1948 was called Introduction to agricultural prices.' *(B) 881*

SOILS

KELLEY, W. P.

Alkali soils; their formation, properties and reclamation. New York, Reinhold; London, C. & H., 1951. pp.vi,176, illus., tables, diagrs., bibliog. 40s. *American Chemical Society monographs series, no. 111.* *(C) 882*

FORESTRY

UNITED STATES. Department of Agriculture

Trees. The yearbook of agriculture, 1949. Washington, United States Government Printing Office, 1951. pp.xiv,944, illus., plates, maps, tables, diagrs. $2.50 *(D) 883*

HORTICULTURE

SHEWELL-COOPER, W. E.

The A B C of flower growing. English Universities Press, 1951. pp.244, illus., plates, diagrs. 6s. *The A B C of gardening series.* (*A*) *884*

SHEWELL-COOPER, W. E.

The A B C of vegetable gardening. English Universities Press, 1951. pp.290, illus., plates (some col.), diagrs. 6s. *The A B C of gardening series.* (*A*) *885*

LIVESTOCK

CAMERON, T. W. M.

The parasites of domestic animals: a manual for veterinary students and surgeons. 2nd ed. Black, 1951. pp.xvi,420, col. front., illus., plates, tables, bibliog 38s. (*C*) *886*

ROBINSON, L.

Modern poultry husbandry. Foreword by Harold Temperton. Crosby Lockwood, 1951. pp.xi,550, front., illus., tables, diagrs., bibliog. 24s. (*B*) *887*

DAIRYING

[See *829*]

PRINTING

DELLER, J.

The art of letterpress machining. Foreword by F. T. Colley. Pitman, 1951. pp.xiv,161, illus., plates, diagrs. 15s. (*B*) *888*

EDE, C., *ed.*

The art of the book; some record of work carried out in Europe and the U.S.A. 1939–1950. Studio, 1951. pp.xii,214, illus. (some col.). 35s. (*B*) *889*

RADFOED, R. G.

Letterpress machine work. Staples Press, 1951. 2 v., illus., plates, tables, diagrs. 50s. (*B*) *890*

INDUSTRIAL ORGANIZATION

BRITISH STANDARDS INSTITUTION

Fifty years of British Standards, 1901–1951. Foreword by Sir John Anderson. British Standards Institution, 1951. pp.103, illus., photos. 10s. 6d. (*A*) *891*

RUSSELL-CLARKE, A. D.

Copyright and industrial designs. Sweet and Maxwell, 1951. pp.xv,261. 37s. 6d. (*C*) *892*

CHEMICAL TECHNOLOGY

MOILLIET, J. L., *and* COLLIE, B.

Surface activity: the physical chemistry, technical applications, and chemical constitution of synthetic surface-active agents. Spon, 1951. pp.x,379, tables, diagrs. 55s. *Spon's industrial chemistry series.* (*C*) *893*

ADHESIVES

DE BRUYNE, N. A., *and* HOUWINK, R., *eds.*

Adhesion and adhesives. New York, Elsevier; London, Cleaver-Hume, 1951. pp.xv,517, illus., tables, diagrs. or 70s. (*C*) *894*

METALLURGY

BOZORTH, R. M.

Ferromagnetism. Van Nostrand, 1951. pp.xvii,968, illus. $17.50. *Bell telephone laboratories series.* (*C*) *895*

FIELD, S., *and* WEILL, A. D.

Electro-plating; a survey of modern practice including the analysis of solutions. 6th ed. Pitman, 1951. pp.x,546, illus., tables, diagrs. 20s. *(B) 896*

HOT DIP GALVANIZING PRODUCTIVITY TEAM

Hot dip galvanizing of general work: report of a visit to the U.S.A. in 1950 of a special team representing the Hot Dip Galvanizing industry. Anglo-American Council on Productivity, 1951. pp.xiii,57, illus., plates, tables, diagrs. 3s. 3d. *Productivity team report.* *(C) 897*

TABOR, D.

The hardness of metals. O.U.P., 1951. pp.ix,175, tables, diagrs., bibliog. 15s. *Monographs on the physics and chemistry of materials, no. 10.* *(C) 898*

MANUFACTURES

TEXTILES

PARSONS, L. E., *and* STEARNS, J. K.

Textile fibers. Scranton, Pennsylvania, International Textbook Co., 1951. pp.284, illus. $4. *(C) 899*

RUBBER

Institution of the Rubber Industry

Annual report on the progress of rubber technology. Vol. XIV, 1950. Ed. by T. J. Drakeley. Cambridge, Heffer (for Institution of the Rubber Industry), 1951. pp.vi,114, tables. 21s. *(C) 900*

BUILDING

BRIDGWOOD, A. E., *ed.*

Carpentry and joinery, intermediate. Newnes, 1951. pp.498, illus., diagrs. 35s. *(B) 901*

DE MARE, E., *ed.*

New ways of building. Revised and enlarged ed. Architectural Press, 1951. pp.255, plates, plans, tables, diagrs., bibliog. 30s. *(B) 902*

PIPPARD, A. J. S., *and* CHITTY, L.

A study of the voussoir arch. H.M.S.O. (for the Department of Scientific and Industrial Research, Building Research Station), 1951. pp.vi,52, plates, charts, tables, diagrs., bibliog. 2s. 6d. *National building studies research paper, no. 11.* *(C) 903*

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The Oxford atlas. Ed. by Sir Clinton Lewis and J. D. Campbell, with the assistance of D. P. Bickmore and K. F. Cook. O.U.P., 1951. pp.96,xxvi,90, maps (some col.), tables, diagrs. 30s. *(D) 904*

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HARRIS, F.

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PUBLISHERS

The following abbreviations are used in the *Aslib Book-List.*

A. & U. : Allen & Unwin
C. & H. : Chapman and Hall
C.U.P. : Cambridge University Press
H.M.S.O. : His Majesty's Stationery Office
L.G. : Longmans, Green
McG.-H. : McGraw-Hill
O. & B. : Oliver and Boyd
O.U.P. : Oxford University Press

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VOLUME 16 NUMBER 12
DECEMBER 1951
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PREFACE

THE main object of this monthly list is to provide libraries with a list of selected recent scientific and technical books. The selection has been made by those with special knowledge of the subjects. It is not claimed that the list is exhaustive and it is hoped that the range of subjects will gradually be extended.

The aim of the Publications Committee has been to secure the help of individuals and specialist organizations who are, for their own purposes, making as complete a survey as possible of the literature in their own fields and who are able to assess the relative merits of new publications. This object has already been largely achieved : over seventy specialist organizations are generously helping Aslib in this way.

The notes in inverted commas are quoted from reviews or from the recommending experts ; those in square brackets are amplifications of the title compiled in the Aslib office from information supplied by the publishers.

Only books in the English language and, with few exceptions, those published within the previous six months, have been included. The limitation with regard to date, however, has been stretched sometimes in the case of books published abroad or those on very specialized subjects.

The place of publication is London unless otherwise stated.

The regular transactions of societies are not included. Nor are British Standard Specifications (except bound volumes). Any inquiry regarding these should be made direct to the B.S.I., 24/28 Victoria Street, London, S.W.1.

The works recommended are set out for convenience under broad main headings following the order of the Universal Decimal Classification and are further classified by the following symbols :

(*A*) Books suitable for general readers, or books treating the subject in an introductory, elementary or general manner.

(*B*) Books of an intermediate degree of technicality or suitable as textbooks for students.

(*C*) Books of an advanced or specially technical character.

(*D*) Directories, dictionaries, handbooks, lists and catalogues, encyclopædias, year-books, and similar publications.

A title-page, classified table of contents, and index are issued with the last number of each volume.

The form of entry of references has been altered to comply with British Standard Specification 1629 : 1950.

ASLIB BOOK-LIST

Volume 16 Number 12 December 1951

GENERAL SCIENCE

GREAT BRITAIN. Advisory Council on Scientific Policy

Government scientific organization in the civilian field; a review prepared for the Lord President of the Council. H.M.S.O., 1951. pp.47, tables. 1s. 6d. *(B) 907*

[See also *914*, *990*]

BIBLIOGRAPHIES

HARPENDEN. Commonwealth Bureau of Soil Science

Bibliography of soil science; fertilizers and general agronomy, 1947–1950. Harpenden, Herts, the Bureau, 1951. pp.xxviii, 535, tables, bibliog. 35s. *(D) 908*

NATIONAL BOOK LEAGUE

The National Book League book list, psychology. C.U.P. (for the League), 1951. pp.30, bibliog. 1s. *Second series.* *(D) 909*

LIBRARIANSHIP

BRITISH DRAMA LEAGUE

The player's library: the catalogue of the library of the British Drama League. First supplement. Faber (for the League), 1951. pp.128. 8s. 6d. *(D) 910*

MUNFORD, W. A.

Penny rate: aspects of British public library history, 1850–1950. The Library Association, 1951. pp.ix,150. 21s. (16s. to members). *(B) 911*

ORGANIZATION FOR EUROPEAN ECONOMIC CO-OPERATION. Committee for Scientific and Technical Matters

Documentation techniques in the U.S.A.; selection, reproduction, dissemination: report of a group of European experts. Paris, O.E.E.C.; London, H.M.S.O., 1951. pp.57. 4s. *ST(51)8.* *(C) 912*

UNESCO. Co-ordinating Committee on Abstracting and Indexing in the Medical and Biological Sciences

Report on the activities and the meeting of the Co-ordinating Committee on Abstracting and Indexing in the Medical and Biological Sciences. Paris, United Nations Educational, Scientific and Cultural Organization; London, H.M.S.O., 1951. pp.92, folders. 5s. *(B) 913*

UNESCO. International Conference on Science Abstracting

Final report of the International Conference on Science Abstracting, Paris, 1949. Paris, United Nations Educational, Scientific and Cultural Organization; London, H.M.S.O., 1951. pp.192, plates, diagrs. 12s. 6d. *(B) 914*

PSYCHOLOGY

FLUGEL, J. C.
A hundred years of psychology, 1833–1933. 2nd ed., with additional part on developments, 1933–1947. Duckworth, 1951. pp.424, bibliog. 21s. *The hundred years series.* 'Previous ed. 1933.' *(B) 915*

ROGERS, C.
Client centered therapy ; its current practice, implications and theory, with chapters contributed by E. Doffman and others. Boston, Houghton Mifflin, 1951. pp.xii,560. $4. *Houghton Mifflin psychological series.* *(C) 916*

[See also *909*, *923*]

ECONOMICS

CAIRNCROSS, A.
Introduction to economics. 2nd ed. Butterworth, 1951. pp.viii,592, tables, diagrs. 18s. 'Previous ed. 1944.' *(B) 917*

Pakistan labour yearbook
Pakistan labour yearbook, 1949–50. By M. Shafi. Foreword by A. M. Malik. Introduction by D. A. Morse. Karachi, India, Labour Publications, 1951. pp.x,881, tables. 19 rupees. *(D) 918*

INTERNATIONAL ORGANIZATIONS

New international yearbook
New international yearbook: a compendium of the world's progress for the year 1950. Ed. H. E. Vizetelly. New York, Funk and Wagnalls; London, Mayflower, 1951. pp.xvi,688, plates, maps, tables, diagrs. $10 or 84s. *(D) 919*

EDUCATION

DAVIES, M. B.
Hygiene and health education for training colleges. 5th ed. L.G., 1951. pp.x,438, front., illus., tables, diagrs., bibliog. 11s. 'Previous ed. 1948.' *(B) 920*

Education committees yearbook
Education committees yearbook, 1951–1952. Councils and Educational Press, 1951. pp.624, tables. 25s. *(D) 921*

MORRIS, R.
The quality of learning: an essay concerning the education of dull children. Methuen, 1951. pp.vi,107. 7s. 6d. *(B) 922*

WOODRUFF, A. D.
The psychology of teaching. 3rd ed. L.G., 1951. pp.xix,617, tables, bibliog. 35s. 'Previous ed. 1948.' *(C) 923*

Year book of education
Year book of education. Eds. J. A. Lauwerys and N. Hans. Evans Bros. (in association with University of London, Institute of Education), 1951. pp.xii,674, bibliog. 63s. *(D) 924*

MATHEMATICS

FERRAR, W. L.
Finite matrices. O.U.P., 1951. pp.vii,183, bibliog. 17s. 6d. *(C) 925*

JAEGER, J. C.
An introduction to applied mathematics. O.U.P., 1951. pp.xiii,445, diagrs. 35s. *(B) 926*

ASTRONOMY

[See *960*]

NAVIGATION

HEWSON, J. B.

A history of the practice of navigation. Glasgow, Brown and Ferguson, 1951. pp. viii,270, illus., tables, diagrs. 30s. *(B) 927*

PHYSICS

BATES, L. F.

Modern magnetism. 3rd ed. C.U.P., 1951. pp.xii,506, tables, diagrs. 30s. 'Previous ed. 1948.' *(B) 928*

BINDER, R. C.

Advanced fluid dynamics and fluid machinery. New York, Prentice-Hall, 1951. pp.x,426, illus. $8. *(C) 929*

DAVY, J. R.

Industrial high vacuum. Pitman, 1951. pp.viii,243, illus., tables, diagrs. 25s. *(B) 930*

INSTITUTE OF PHYSICS

Vacuum physics: a symposium held by the Midland Branch of the Institute of Physics in Birmingham on 27th and 28th July, 1950. The Institute, 1951. pp.iii,80,viii, illus., tables, diagrs. 15s. *Journal of Scientific Instruments, supplement no. 1.* *(C) 931*

JOOS, G., *and* FREEMAN, I. M.

Theoretical physics. 2nd ed. Blackie, 1951. pp.xxiii,853, plates, tables, diagrs., bibliog. 50s. 'Previous ed. 1934.' *(C) 932*

ROYDS, R.

Measurement and control of temperatures in industry. Constable, 1951. pp.vii,260, illus., tables, diagrs. 25s. *(B) 933*

TIMOSHENKO, S., *and* GOODIER, J. N.

Theory of elasticity. 2nd ed. New York and London, McG.-H., 1951. pp.xviii,506, illus., tables, diagrs. $9.50 or 81s. *Engineering societies monographs, ed. by R. H. Phelps.* *(C) 934*

[See also *926*]

CRYSTALLOGRAPHY

BIJVOET, J. M., *and others*

X-ray analysis of crystals. Trans. by H. Furth. Butterworth, 1951. pp.xii,304, illus., plates, diagrs. 50s. *(C) 935*

GEOLOGY

TURNER, F. J., *and* VERHOOGEN, J.

Igneous and metamorphic petrology. New York, McG.-H., 1951. pp.ix,602, maps. $9. *(C) 936*

METEOROLOGY

DONN, W. L.

Meteorology with marine application. 2nd ed. New York, McG.-H., 1951. pp.xix,465, illus., maps. $5.50. *(C) 937*

KIMBALL, G.

The weather. Revised and enlarged [2nd] ed. Harmondsworth, Middlesex, Penguin Books, 1951. pp.256, plates, illus., tables, diagrs. 3s. 'Previous ed. 1943.' *(A) 938*

BIOCHEMISTRY

ALBERT, A.

Selective toxicity, with special reference to chemotherapy. New York, Wiley; London, Methuen, 1951. pp.228, front., plates, tables, diagrs., bibliog. $1.75 or 7s. 6d. *'Methuen's monographs on biochemical subjects.* (*C*) *939*

BIOLOGY

BULLOUGH, W. S.

Vertebrate sexual cycles. New York, Wiley; London, Methuen, 1951. pp.viii,117, diagrs. $1.25 or 10s. *Methuen's monographs on biological subjects, ed. by M. Abercrombie.* (*A*) *940*

[See also *913*]

ANTHROPOLOGY

ASHLEY-MONTAGU, M. F.

Statement on race; an extended discussion in plain language of the United Nations Educational, Scientific and Cultural Organization statement by experts on race problems. New York, Schuman, 1951. pp.xi,172. $2. (*B*) *941*

COATES, A.

Prelude to history: a study of human origins and Palaeolithic savagery. Foreword by G. E. Daniel. Methuen, 1951. pp.xviii,289, col. front., illus., plates, maps, diagrs., bibliog. 22s. 6d. (*A*) *942*

COMAS, J.

Racial myths. Paris, United Nations Educational, Scientific and Cultural Organization; London, H.M.S.O., 1951. pp.51. 1s. 6d. *The race question in modern science.* (*A*) *943*

LEIRIS, M.

Race and culture. Paris, United Nations Educational, Scientific and Cultural Organization; London, H.M.S.O., 1951. pp.46, bibliog. 1s. 6d. *The race question in modern science.* (*A*) *944*

BOTANY

PRIME, C. T., *and* DEACOCK, R. J.

Trees and shrubs; their identification in summer and winter. 5th ed. Illustrated by R. J. Jones. Cambridge, Heffer, 1951. pp.110, illus., plates, bibliog. 6s. 'Previous ed. 1935 entitled " How to identify trees and shrubs from leaves or twigs in winter and summer".' (*A*) *945*

ZOOLOGY

MUIRHEAD-THOMSON, R. C.

Mosquito behaviour in relation to malaria transmission and control in the tropics. Arnold, 1951. pp.viii,219, plates, tables, diagrs. 30s. (*B*) *946*

PATTEN, B. M.

Embryology of the pig. 3rd ed. A. & U., 1951. pp.xiii,352, col. front., illus., diagrs., bibliog. 35s. (*C*) *947*

RANKIN, N.

Antarctic isle: wild life in South Georgia. Collins, 1951. pp.383, front., illus., plates, maps. 25s. (*B*) *948*

WING, L. W.

Practice of wild life conservation. New York, Wiley, 1951. pp.viii,412, illus. $5.50. (*B*) *949*

PUBLIC HEALTH

[See *920*]

VETERINARY SCIENCE

HAGAN, W. A., *and* BRUNER, D. W.
The infectious diseases of domestic animals with special reference to etiology, diagnosis and biologic therapy. 2nd ed. Ithaca, New York, Comstock, 1951. pp.xxx,920, illus. $8. *Comstock series in veterinary medicine.* 'Previous ed. 1942.' (*C*) *950*

ENGINEERING

CULLIMORE, M. S. G., *and* PUGSLEY, A. G.
The torsion of aluminium alloy structural members. Aluminium Development Association, 1951. pp.60, illus., tables, diagrs., bibliog. 7s. 6d. *Aluminium Development Association research report series, no.* 9. (*B*) *951*

[See also *926, 931*]

MECHANICAL

Air-operated production aids
Air-operated production aids: examples of air-operated clamps, jigs and fixtures, and other workshop devices used in production and assembly. Machinery Publishing Co., 1951. pp.64, illus., diagrs. 3s. 6d. *Machinery's yellow back series, no. 2A.* (*C*) *952*

MARKS, L. S., *ed.*
Mechanical engineer's handbook. 5th ed. McG.-H., 1951. pp.xvii,2236, illus., tables, diagrs. 107s. 6d. 'Previous ed. 1941.' (*D*) *953*

ELECTRICAL

COTTON, H.
Applied electricity. Cleaver-Hume, 1951. pp.xi,451, tables, diagrs. 17s. 6d. (*B*) *954*

INTERNAL COMBUSTION

COHEN, E., *and* ROGERS, G. F. C.
Gas turbine theory. L.G., 1951. pp.ix,291, illus., diagrs. 30s. (*C*) *955*

MARINE

LOVELESS, N. H.
Modern motor boats and yachts. Temple Press, 1951. pp.v,88, col. front., illus., plates (some col.), diagrs. 8s. 6d. *Boys' power and speed library.* (*A*) *956*

SPRATT, H. P.
Transatlantic paddle steamers. Glasgow, Brown and Ferguson, 1951. pp.82, plates, tables. 7s. 6d. (*A*) *957*

AERONAUTICAL

Aircraft engines of the world
Aircraft engines of the world. By P. H. Wilkinson. Pitman, 1951. pp.324, front., illus., tables. 50s. (*A*) *958*

BROWN, W. D.
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A. & U. : Allen & Unwin
C. & H. : Chapman and Hall
C.U.P. : Cambridge University Press
H.M.S.O. : His Majesty's Stationery Office
L.G. : Longmans, Green
McG.H. : McGraw-Hill
O. & B. : Oliver and Boyd
O.U.P. : Oxford University Press

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